

# Converting Colors

XYZ(17.7973, 7.8802, 0.0000)

Have a look what the booklet for  
XYZ(17.7973, 7.8802, 0.0000)  
contains.

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# Color

**XYZ(18.8224, 9.7033,  
0.8809)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B40000
RGB	180, 0, 0
RGB Percent	71%, 0%, 0%
CMY	0.2941, 0.9999, 1.0000
CMYK	0.00, 1.00, 1.00, 0.29
HSL	0°, 100%, 35%
HSV	0°, 100%, 71%
XYZ	18.8224, 9.7033, 0.8809
YIQ	53.8200, 107.2800, 38.1600

# Conversions

## Conversions Part 2

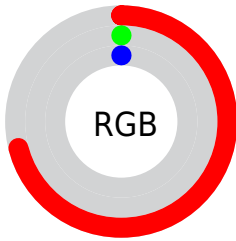
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	180, 0, 0
Decimal	11796480
CIE Lab	37.30, 61.68, 51.72
CIE LCh	37, 80.493, 39.980
Yxy	9.7033, 0.6401, 0.3300
Android (android.graphics.Color)	4289986560 (0xFFB40000)
YUV	53.8200, -26.5333, 110.6599
Hunter-Lab	31.1501, 53.3456, 20.1284

# Details

The XYZ color **18.8224, 9.7033, 0.8809** is a dark color, and the websafe version is hex **CC0000**. A complement of this color would be **24.5531, 35.9250, 48.8198**, and the grayscale version is **3.5087, 3.6914, 4.0200**.

A 20% lighter version of the original color is **41.0065, 25.2262, 5.6136**, and **7.3361, 3.7819, 0.3433** is the 20% darker color. If you saturate the color by 10%, you get **18.8226, 9.7039, 0.8810**, and if you desaturate by 10%, it is **19.1482, 10.1805, 1.5281**.

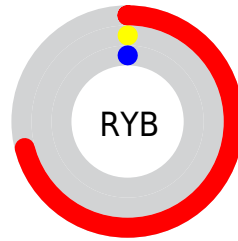
# Distribution



Red (71%)

Green (0%)

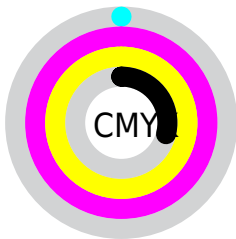
Blue (0%)



Red (71%)

Yellow (0%)

Blue (0%)

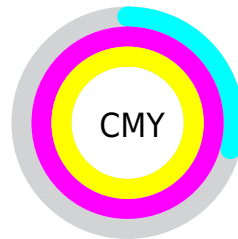


Cyan (0%)

Magenta (100%)

Yellow (100%)

Black (29%)



Cyan (29%)

Magenta (100%)


Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 18.8224, 9.7033, 0.8809 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 18.8224, 9.7033, 0.8809 by changing the saturation by 10% instead.





 18.8224, 9.7033,  
0.8809


 18.8224, 9.7033,  
0.8809


 238.4235,  
188.5412, 101.4769


 11.6453, 5.2027,  
0.0000


 40.9530, 25.2359,  
5.6662


 6.5731, 2.3667,  
0.0000


 56.6371, 37.0367,  
10.5672


 3.2405, 0.8087,  
0.0000

 75.8877, 52.0397,  
17.6995

 1.2822, 0.0000,  
0.0000

 99.0699, 70.6293,  
27.4814

 0.1698, 0.0000,  
0.0000


 126.5493, 93.1898,  
40.3316


 0.0000, 0.0000,  
0.0000


 158.6911,


120.1057, 56.6685


 195.8607,  
151.7614, 76.9108


 18.8224, 9.7033,  
0.8809


 18.8224, 9.7033,  
0.8809

 18.8226, 9.7039,  
0.8810

 19.1482, 10.1805,  
1.5281

 19.7724, 11.0939,  
2.7684

 20.8084, 12.6100,  
4.8274

 22.3106, 14.8084,  
7.8135

 24.3253, 17.7566,  
11.8184

■ 26.8931, 21.5139,  
16.9229

■ 30.0504, 26.1340,  
23.1996

■ 33.8307, 31.6656,  
30.7149

■ 38.2650, 38.1540,  
39.5305

# Harmonies

## Analogous

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



22.4416, 9.7033, 6.4475



18.8224, 9.7033, 0.8809



12.9549, 9.7033, 0.0000

# Triad

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



18.8224, 9.7033, 0.8809



2.7843, 9.7033, 3.6264



11.0066, 9.7033, 68.2686

# Complementary

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



18.8224, 9.7033, 0.8809



24.5531, 35.9250, 48.8198

# 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.



6.2864, 9.7033, 63.9989



18.8224, 9.7033, 0.8809



2.5913, 9.7033, 16.1435

# Square

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



18.8224, 9.7033, 0.8809



4.2914, 9.7033, 0.1845



3.6107, 9.7033, 40.3218



16.9578, 9.7033, 49.3061



# Rectangle

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



18.8224, 9.7033, 0.8809



9.2260, 9.7033, 0.0000



3.6107, 9.7033, 40.3218



9.2194, 9.7033, 69.7363

# Sweetspot

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



18.8226, 9.7039, 0.8810



54.1668, 46.9165, 41.4271



27.0604, 12.9985, 44.2624



11.1704, 9.3546, 7.8864



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787



# Same Dimension

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



18.8226, 9.7039, 0.8810



34.1295, 17.5950, 1.5974



22.4785, 17.0156, 2.0996



8.4965, 8.5055, 8.8464



13.1372, 6.7729, 0.6149



0.4134, 0.2132, 0.0194



# Inverse Universe

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



24.5531, 35.9250, 48.8198



44.5201, 65.1399, 88.5214



11.8944, 10.6077, 44.6003



8.7426, 9.6313, 10.9046



17.1367, 25.0738, 34.0735



0.5392, 0.7890, 1.0721



# Previews

## White Background



This preview shows how the XYZ color 18.8224, 9.7033, 0.8809 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

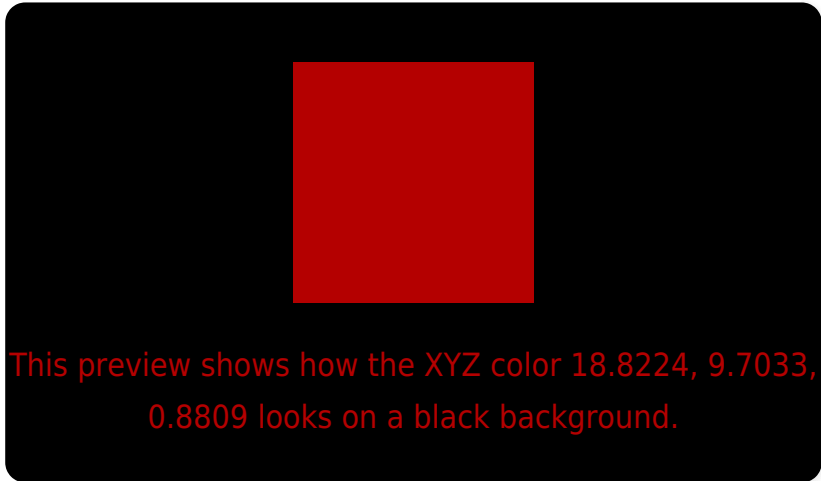
Any Text WCAG AA ✓ Pass

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 18.8224, 9.7033, 0.8809**

## **Background**



This preview shows how black text looks on a background with the XYZ color 18.8224, 9.7033, 0.8809.



This preview shows how white text looks on a background with the XYZ color 18.8224, 9.7033,

0.8809.

# 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

18.8224, 9.7033, 0.8809

### Protanopia

9.3752, 10.3688, 2.3179

### Deuteranopia

10.2672, 10.2330, 1.4340



## Tritanopia

18.7909, 9.9846, 0.9368

# Trichromacy



## Original Color

18.8224, 9.7033, 0.8809

## Protanomaly

10.8052, 7.8064, 1.3892

## Deuteranomaly

11.8474, 8.1357, 0.9459

## Tritanomaly

18.7101, 9.8230, 0.9099

# Monochromacy



## Original Color

18.8224, 9.7033, 0.8809

## Achromatopsia

3.5063, 3.6889, 4.0173

## Achromatomaly

6.1163, 3.9689, 1.9571

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 18.8224, 9.7033, 0.8809 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(180, 0, 0)` looks like.

```
.text, #text, p{  
    color:rgb(180, 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(180, 0, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 0, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 18.8224, 9.7033, 0.8809 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(180, 0, 0) }
```



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

```
.border{ border-color:rgb(180, 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(180, 0, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 0, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(180, 0, 0); box-shadow:4px  
4px 4px 4px rgb(180, 0, 0) }
```

# Background

The CSS property to change the background color of an element to XYZ 18.8224, 9.7033, 0.8809 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 0, 0) }
```

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

```
.background{ background-color: rgb(180, 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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