

# Converting Colors

XYZ(16.8096, 8.6601, 1.0353)

Have a look what the booklet for  
XYZ(16.8096, 8.6601, 1.0353)  
contains.

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# Color

**XYZ(16.8439, 8.6777,  
1.0456)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AB0009
RGB	171, 0, 9
RGB Percent	67%, 0%, 4%
CMY	0.3294, 0.9999, 0.9647
CMYK	0.00, 1.00, 0.95, 0.33
HSL	357°, 100%, 34%
HSV	357°, 100%, 67%
XYZ	16.8439, 8.6777, 1.0456
YIQ	52.1550, 99.0270, 39.0510

# Conversions

## Conversions Part 2

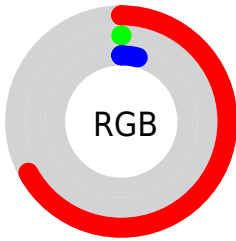
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	171, 0, 9
Decimal	11206665
CIE Lab	35.36, 59.49, 46.03
CIE LCh	35, 75.217, 37.736
Yxy	8.6777, 0.6340, 0.3266
Android (android.graphics.Color)	4289396745 (0xFFAB0009)
YUV	52.1550, -21.2754, 104.2271
Hunter-Lab	29.4579, 50.5140, 18.5161

# Details

The XYZ color **16.8439, 8.6777, 1.0456** is a dark color, and the websafe version is hex **990000**. A complement of this color would be **21.0876, 31.7355, 39.2114**, and the grayscale version is **3.3007, 3.4726, 3.7817**.

A 20% lighter version of the original color is **37.6286, 23.2554, 6.2469**, and **6.1843, 3.1881, 0.2894** is the 20% darker color. If you saturate the color by 10%, you get **16.8436, 8.6775, 1.0447**, and if you desaturate by 10%, it is **17.1746, 9.1339, 1.7890**.

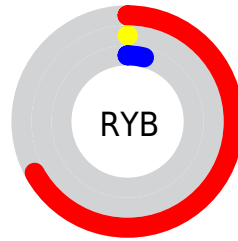
# Distribution



Red (67%)

Green (0%)

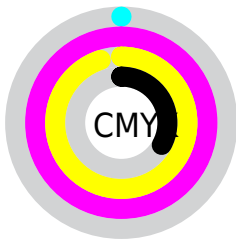
Blue (4%)



Red (67%)

Yellow (0%)

Blue (4%)

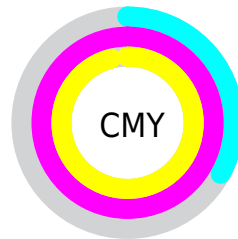


Cyan (0%)

Magenta (100%)

Yellow (95%)

Black (33%)



Cyan (33%)

Magenta (100%)


Yellow (96%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 16.8439, 8.6777, 1.0456 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 16.8439, 8.6777, 1.0456 by changing the saturation by 10% instead.





 16.8439, 8.6777,  
1.0456


 16.8439, 8.6777,  
1.0456


 227.4450,  
180.9550, 105.1427


 10.2179, 4.5316,  
0.0000


 37.6029, 23.2767,  
6.2120


 5.6070, 1.9751,  
0.0000

 52.4666, 34.4983,  
11.3895


 2.6460, 0.5930,  
0.0000

 70.8070, 48.8472,  
18.8546

 0.9695, 0.0000,  
0.0000


 92.9892, 66.7079,  
29.0258


 0.0000, 0.0000,  
0.0000


 119.3788, 88.4645,  
42.3217


 150.3411,

114.5017, 59.1607

 186.2414,  
145.2037, 79.9616


 16.8439, 8.6777,  
1.0456


 16.8439, 8.6777,  
1.0456


 16.8436, 8.6775,  
1.0447

 17.1746, 9.1339,  
1.7890

 17.7805, 9.9781,  
3.1239

 18.7466, 11.3561,  
5.1548

 20.1174, 13.3364,  
7.9592

 21.9310, 15.9773,  
11.6041

■ 24.2209, 19.3303,  
16.1496

■ 27.0176, 23.4418,  
21.6500

■ 30.3489, 28.3543,  
28.1555

■ 34.2405, 34.1071,  
35.7126

# Harmonies

## Analogous

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



19.6990, 8.6777, 6.5639



16.8439, 8.6777, 1.0456



11.8611, 8.6777, 0.0000

# Triad

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



16.8439, 8.6777, 1.0456



2.6573, 8.6777, 2.9467



9.4321, 8.6777, 59.0278

# Complementary

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



16.8439, 8.6777, 1.0456



21.0876, 31.7355, 39.2114

# 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.



5.4549, 8.6777, 53.8414



16.8439, 8.6777, 1.0456



2.4070, 8.6777, 13.0744

# Square

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



16.8439, 8.6777, 1.0456



4.0981, 8.6777, 0.1030



3.2254, 8.6777, 33.1748



14.5378, 8.6777, 44.1491



# Rectangle

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



16.8439, 8.6777, 1.0456



8.5846, 8.6777, 0.0000



3.2254, 8.6777, 33.1748



7.9201, 8.6777, 59.7099

# Sweetspot

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



16.8441, 8.6783, 1.0457



48.0882, 41.5427, 38.1876



21.7686, 10.3735, 39.3827



10.2461, 8.5612, 7.5781



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123



# Same Dimension

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



16.8441, 8.6783, 1.0457



30.1424, 15.5316, 1.7455



19.2513, 13.5712, 1.6058



8.0216, 8.0219, 8.4248



12.7039, 6.5441, 0.8202



0.3588, 0.1842, 0.0512



# Inverse Universe

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



16.8441, 8.6783, 1.0457



30.1424, 15.5316, 1.7455



11.6177, 11.4738, 40.1301



8.0216, 8.0219, 8.4248



12.7039, 6.5441, 0.8202



0.3588, 0.1842, 0.0512



# Previews

## White Background



This preview shows how the XYZ color 16.8439, 8.6777, 1.0456 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

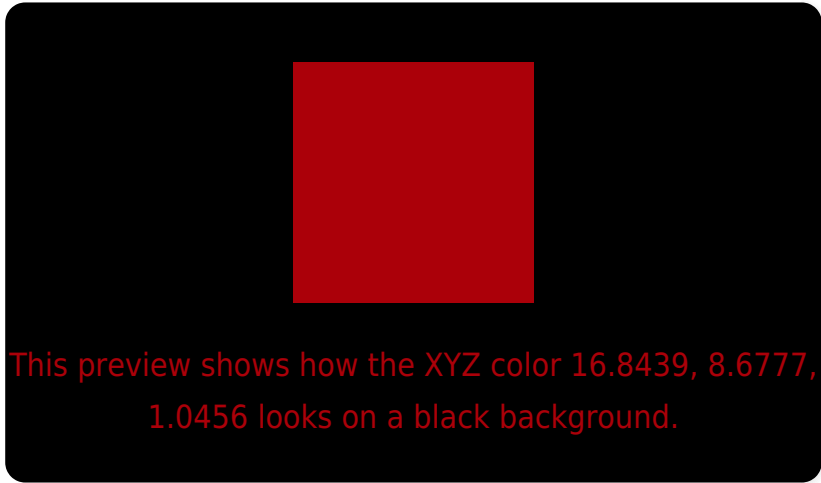
Any Text WCAG AA ✓ Pass

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 16.8439, 8.6777, 1.0456**

## **Background**



This preview shows how black text looks on a background with the XYZ color 16.8439, 8.6777, 1.0456.



This preview shows how white text looks on a background with the XYZ color 16.8439, 8.6777,



# 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

16.8439, 8.6777, 1.0456

### Protanopia

8.4330, 9.2672, 2.2640

### Deuteranopia

9.3240, 9.2858, 1.3009



## Tritanopia

16.7629, 8.9166, 0.8376

# Trichromacy



## Original Color

16.8439, 8.6777, 1.0456

## Protanomaly

9.7959, 7.0645, 1.4634

## Deuteranomaly

10.7601, 7.3681, 0.9412

## Tritanomaly

16.7025, 8.7697, 0.8985

# Monochromacy



## Original Color

16.8439, 8.6777, 1.0456

## Achromatopsia

3.2640, 3.4340, 3.7396

## Achromatomaly

5.5816, 3.6480, 2.0790

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 16.8439, 8.6777, 1.0456 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(171, 0, 9)` looks like.

```
.text, #text, p{  
    color:rgb(171, 0, 9)  
}
```

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(171, 0, 9) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(171, 0, 9) }
```

## Border

The CSS property to change the border of an element to XYZ 16.8439, 8.6777, 1.0456 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(171, 0, 9) }
```



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

```
.border{ border-color:rgb(171, 0, 9) }
```

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

Here you see how a box with a 4 pixel `rgb(171, 0, 9)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(171, 0, 9); -webkit-box-shadow:4px  
4px 4px 4px rgb(171, 0, 9); box-shadow:4px  
4px 4px 4px rgb(171, 0, 9) }
```

# Background

The CSS property to change the background color of an element to XYZ 16.8439, 8.6777, 1.0456 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(171, 0, 9) }
```

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

```
.background{ background-color: rgb(171, 0,  
9) }
```

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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