

# Converting Colors

XYZ(16.7794, 9.5870, 0.9661)

Have a look what the booklet for  
XYZ(16.7794, 9.5870, 0.9661)  
contains.

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# Color

**XYZ(16.7793, 9.5866,  
0.9660)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A82400
RGB	168, 36, 0
RGB Percent	66%, 14%, 0%
CMY	0.3412, 0.8588, 1.0000
CMYK	0.00, 0.79, 1.00, 0.34
HSL	13°, 100%, 33%
HSV	13°, 100%, 66%
XYZ	16.7793, 9.5866, 0.9660
YIQ	71.3640, 90.2280, 16.7880

# Conversions

## Conversions Part 2

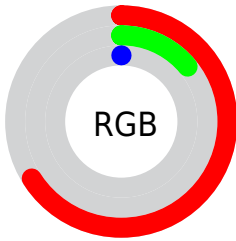
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	168, 46, 0
Decimal	11019264
CIE <sub>Lab</sub>	37.09, 51.65, 50.13
CIE <sub>LCh</sub>	37, 71.980, 44.144
Yxy	9.5866, 0.6139, 0.3507
Android (android.graphics.Color)	4289209344 (0xFFA82400)
YUV	71.3640, -35.1825, 84.7498
Hunter-Lab	30.9622, 42.5502, 19.8238

# Details

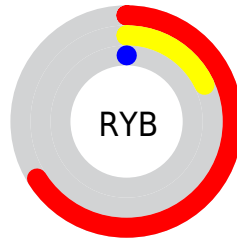
The XYZ color **16.7793, 9.5866, 0.9660** is a dark color, and the websafe version is hex **990000**. A complement of this color would be **15.3174, 19.3263, 39.9684**, and the grayscale version is **6.0990, 6.4166, 6.9877**.

A 20% lighter version of the original color is **37.4669, 25.0566, 5.9937**, and **5.9439, 3.0642, 0.2782** is the 20% darker color. If you saturate the color by 10%, you get **16.7795, 9.5872, 0.9661**, and if you desaturate by 10%, it is **17.3550, 10.5788, 1.6494**.

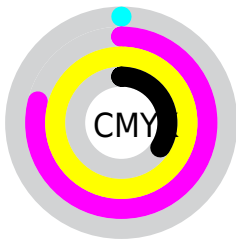
# Distribution



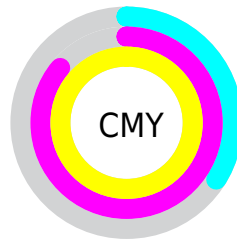
- Red (66%)
- Green (14%)
- Blue (0%)



- Red (66%)
- Yellow (18%)
- Blue (0%)



- Cyan (0%)
- Magenta (79%)
- Yellow (100%)
- Black (34%)



- Cyan (34%)
- Magenta (86%)
- Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 16.7793, 9.5866, 0.9660 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 16.7793, 9.5866, 0.9660 by changing the saturation by 10% instead.





 16.7793, 9.5866,  
0.9660

 16.7793, 9.5866,  
0.9660


 227.0784,  
187.6956, 103.3856

 10.1716, 5.1257,  
0.0000


 37.4925, 25.0150,  
5.9478


 5.5760, 2.3212,  
0.0000

 52.3288, 36.7513,  
10.9927


 2.6272, 0.7849,  
0.0000

 70.6386, 51.6815,  
18.2983

 0.9598, 0.0000,  
0.0000

 92.7873, 70.1901,  
28.2831


 0.0000, 0.0000,  
0.0000

 119.1403, 92.6614,  
41.3657


 150.0629,


119.4798, 57.9646


 185.9205,  
151.0297, 78.4984


 16.7793, 9.5866,  
0.9660


 16.7793, 9.5866,  
0.9660


 16.7795, 9.5872,  
0.9661

 17.3550, 10.5788,  
1.6494

 18.1762, 11.9278,  
2.8276

 19.2902, 13.6735,  
4.6856

 20.7237, 15.8450,  
7.3078

 22.5004, 18.4686,  
10.7663

■ 24.6415, 21.5685,  
15.1249

■ 27.1664, 25.1669,  
20.4409

■ 30.0931, 29.2848,  
26.7671

■ 33.4386, 33.9419,  
34.1522

# Harmonies

## Analogous

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



20.2510, 9.5866, 5.5031



16.7793, 9.5866, 0.9660



11.6687, 9.5866, 0.0000

# Triad

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



16.7793, 9.5866, 0.9660



3.0909, 9.5866, 5.0521



11.3784, 9.5866, 57.1523

# Complementary

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



16.7793, 9.5866, 0.9660



15.3174, 19.3263, 39.9684

# 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.



6.9586, 9.5866, 56.5626



16.7793, 9.5866, 0.9660



3.0587, 9.5866, 17.6857

# Square

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



16.7793, 9.5866, 0.9660



4.3395, 9.5866, 0.8597



4.2296, 9.5866, 38.6958



16.5078, 9.5866, 39.9557



# Rectangle

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



16.7793, 9.5866, 0.9660



8.5045, 9.5866, 0.0000



4.2296, 9.5866, 38.6958



9.7473, 9.5866, 59.2976

# Sweetspot

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



16.7795, 9.5872, 0.9661



49.0269, 45.2858, 36.5153



20.4793, 10.0571, 23.5624



10.2679, 9.2768, 7.0729



80.6108, 84.8088, 92.3568



14.7206, 15.4872, 16.8656



# Same Dimension

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



16.7795, 9.5872, 0.9661



30.3206, 17.1403, 1.7103



22.5796, 21.1875, 2.8995



7.6566, 7.7933, 7.8900



12.7032, 7.3037, 0.7402



0.3442, 0.2479, 0.0297



# Inverse Universe

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



15.3174, 19.3263, 39.9684



27.6339, 34.7466, 72.4754



8.2256, 5.1427, 37.6045



7.6091, 8.2550, 9.6107



11.6055, 14.6712, 30.1956



0.3156, 0.4233, 0.7457



# Previews

## White Background



This preview shows how the XYZ color 16.7793, 9.5866, 0.9660 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

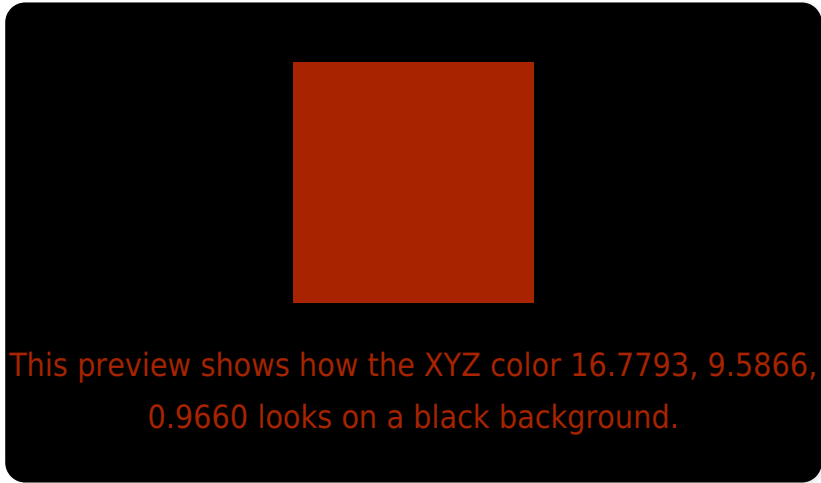
Any Text WCAG AA ✓ Pass

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

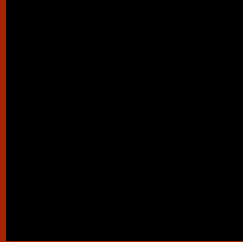
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 16.7793, 9.5866, 0.9660**

## **Background**



This preview shows how black text looks on a background with the XYZ color 16.7793, 9.5866, 0.9660.



This preview shows how white text looks on a background with the XYZ color 16.7793, 9.5866,

0.9660.

# 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

16.7793, 9.5866, 0.9660

### Protanopia

8.9542, 9.9046, 2.1017

### Deuteranopia

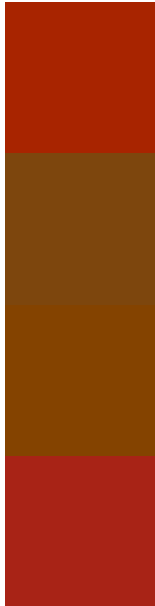
9.8524, 9.7854, 1.3695



## Tritanopia

17.0092, 9.5844, 2.4669

# Trichromacy



## Original Color

16.7793, 9.5866, 0.9660

## Protanomaly

10.7203, 8.7694, 1.5084

## Deuteranomaly

11.5229, 8.9198, 1.1144

## Tritanomaly

16.8943, 9.5848, 1.7187

# Monochromacy



## Original Color

16.7793, 9.5866, 0.9660

## Achromatopsia

5.9891, 6.3010, 6.8618

## Achromatomaly

7.9306, 6.2797, 3.2767

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 16.7793, 9.5866, 0.9660 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(168, 36, 0)` looks like.

```
.text, #text, p{  
    color:rgb(168, 36, 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(168, 36, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(168, 36, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 16.7793, 9.5866, 0.9660 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(168, 36, 0) }
```



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

```
.border{ border-color:rgb(168, 36, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(168, 36, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(168, 36, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(168, 36, 0);  
box-shadow:4px 4px 4px 4px rgb(168, 36, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 16.7793, 9.5866, 0.9660 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(168, 36, 0) }
```

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

```
.background{ background-color: rgb(168, 36,  
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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