

# Converting Colors

XYZ(16.9475, 9.8281, 1.0038)

Have a look what the booklet for  
XYZ(16.9475, 9.8281, 1.0038)  
contains.

<b>XYZ(16.8740, 9.7759, 0.9976)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(16.8740, 9.7759,  
0.9976)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A82700
RGB	168, 39, 0
RGB Percent	66%, 15%, 0%
CMY	0.3412, 0.8470, 1.0000
CMYK	0.00, 0.77, 1.00, 0.34
HSL	14°, 100%, 33%
HSV	14°, 100%, 66%
XYZ	16.8740, 9.7759, 0.9976
YIQ	73.1250, 89.4030, 15.2190

# Conversions

## Conversions Part 2

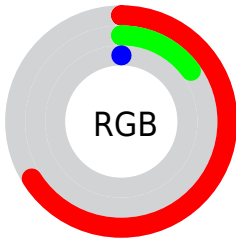
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	168, 51, 0
Decimal	11020032
CIE Lab	37.44, 50.68, 50.28
CIE LCh	37, 71.394, 44.773
Yxy	9.7759, 0.6103, 0.3536
Android (android.graphics.Color)	4289210112 (0xFFA82700)
YUV	73.1250, -36.0506, 83.2054
Hunter-Lab	31.2664, 41.6174, 19.9948

# Details

The XYZ color **16.8740, 9.7759, 0.9976** is a dark color, and the websafe version is hex **990000**. A complement of this color would be **14.9169, 18.5253, 39.8351**, and the grayscale version is **6.4057, 6.7393, 7.3391**.

A 20% lighter version of the original color is **37.6447, 25.4124, 6.0529**, and **5.9439, 3.0642, 0.2782** is the 20% darker color. If you saturate the color by 10%, you get **16.8741, 9.7764, 0.9977**, and if you desaturate by 10%, it is **17.4719, 10.8125, 1.6884**.

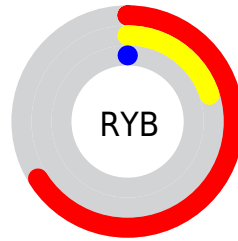
# Distribution



Red (66%)

Green (15%)

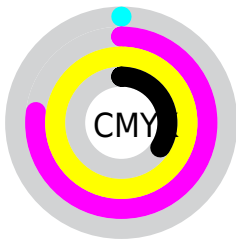
Blue (0%)



Red (66%)

Yellow (20%)

Blue (0%)

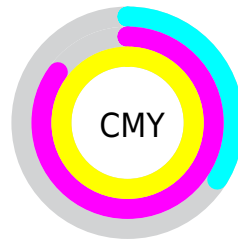


Cyan (0%)

Magenta (77%)

Yellow (100%)

Black (34%)



Cyan (34%)

Magenta (85%)


Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 16.8740, 9.7759, 0.9976 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 16.8740, 9.7759, 0.9976 by changing the saturation by 10% instead.





 16.8740, 9.7759,  
0.9976


 16.8740, 9.7759,  
0.9976


 227.6157,  
189.0651, 104.0919


 10.2394, 5.2506,  
0.0000


 37.6543, 25.3731,  
6.0534


 5.6215, 2.3951,  
0.0000

 52.5308, 37.2139,  
11.1516


 2.6548, 0.8233,  
0.0000

 70.8853, 52.2619,  
18.5213

 0.9739, 0.0000,  
0.0000

 93.0832, 70.9016,  
28.5811


 0.0000, 0.0000,  
0.0000


 119.4898, 93.5174,  
41.7495


 150.4706,


120.4936, 58.4451


 186.3907,  
152.2147, 79.0864


 16.8740, 9.7759,  
0.9976


 16.8740, 9.7759,  
0.9976


 16.8741, 9.7764,  
0.9977

 17.4719, 10.8125,  
1.6884

 18.3107, 12.1966,  
2.8725

 19.4364, 13.9659,  
4.7345

 20.8751, 16.1475,  
7.3585

 22.6493, 18.7663,  
10.8164

■ 24.7797, 21.8448,  
15.1715

■ 27.2851, 25.4040,  
20.4811

■ 30.1827, 29.4637,  
26.7976

■ 33.4890, 34.0423,  
34.1698

# Harmonies

## Analogous

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



20.4004, 9.7759, 5.4992



16.8740, 9.7759, 0.9976



11.7507, 9.7759, 0.0000

# Triad

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



16.8740, 9.7759, 0.9976



3.1996, 9.7759, 5.3783



11.6736, 9.7759, 56.9768

# Complementary

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



16.8740, 9.7759, 0.9976



14.9169, 18.5253, 39.8351

# 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.



7.2022, 9.7759, 56.8219



16.8740, 9.7759, 0.9976



3.1910, 9.7759, 18.2830

# Square

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



16.8740, 9.7759, 0.9976



4.4382, 9.7759, 0.9693



4.4087, 9.7759, 39.3141



16.8021, 9.7759, 39.6458



# Rectangle

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



16.8740, 9.7759, 0.9976



8.5911, 9.7759, 0.0000



4.4087, 9.7759, 39.3141



10.0294, 9.7759, 59.2468

# Sweetspot

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



16.8742, 9.7765, 0.9977



49.2440, 45.7199, 36.5877



20.2859, 9.9798, 22.5437



10.3187, 9.3784, 7.0899



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.



16.8742, 9.7765, 0.9977



30.4841, 17.4674, 1.7648



22.9130, 21.8542, 3.0107



7.6672, 7.8146, 7.8935



12.7765, 7.4503, 0.7647



0.3481, 0.2558, 0.0310



# Inverse Universe

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



14.9169, 18.5253, 39.8351



26.8985, 33.2758, 72.2303



8.1086, 4.9086, 37.5656



7.5977, 8.2323, 9.6069



11.3050, 14.0701, 30.0955



0.3102, 0.4126, 0.7439



# Previews

## White Background



This preview shows how the XYZ color 16.8740, 9.7759, 0.9976 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

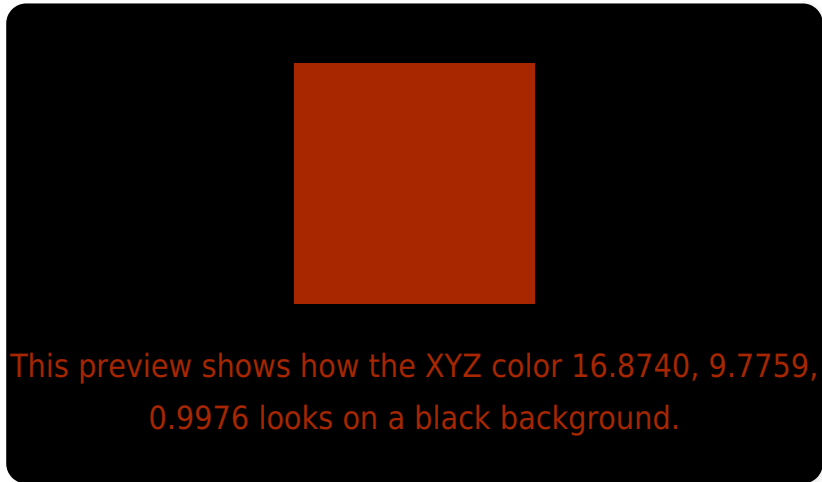
Any Text WCAG AA ✓ Pass

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 16.8740, 9.7759, 0.9976**

## **Background**



This preview shows how black text looks on a background with the XYZ color 16.8740, 9.7759, 0.9976.



This preview shows how white text looks on a background with the XYZ color 16.8740, 9.7759,

0.9976.

# 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

16.8740, 9.7759, 0.9976

### Protanopia

9.1493, 10.1295, 2.1348

### Deuteranopia

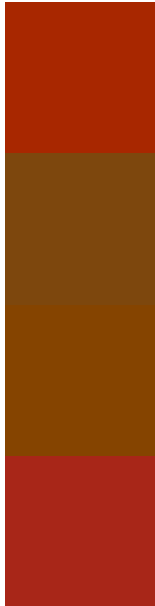
10.0586, 10.0077, 1.4015



## Tritanopia

17.1439, 9.7815, 2.7347

# Trichromacy



## Original Color

16.8740, 9.7759, 0.9976

## Protanomaly

10.7833, 8.8955, 1.5294

## Deuteranomaly

11.7400, 9.1208, 1.1417

## Tritanomaly

17.0064, 9.7770, 1.8550

# Monochromacy



## Original Color

16.8740, 9.7759, 0.9976

## Achromatopsia

6.3328, 6.6626, 7.2556

## Achromatomaly

8.3462, 6.7229, 3.4425

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 16.8740, 9.7759, 0.9976 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, 39, 0)` looks like.

```
.text, #text, p{  
    color:rgb(168, 39, 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, 39, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(168, 39, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 16.8740, 9.7759, 0.9976 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, 39, 0) }
```



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

```
.border{ border-color:rgb(168, 39, 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, 39, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(168, 39, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(168, 39, 0);  
box-shadow:4px 4px 4px 4px rgb(168, 39, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 16.8740, 9.7759, 0.9976 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(168, 39, 0) }
```

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

```
.background{ background-color: rgb(168, 39,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor