

# Converting Colors

XYZ(15.7898, 7.0512, 3.6606)

Have a look what the booklet for  
XYZ(15.7898, 7.0512, 3.6606)  
contains.

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# Color

**XYZ(16.5339, 8.4545,  
3.8924)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A70033
RGB	167, 0, 51
RGB Percent	65%, 0%, 20%
CMY	0.3451, 0.9999, 0.8000
CMYK	0.00, 1.00, 0.69, 0.35
HSL	342°, 100%, 33%
HSV	342°, 100%, 65%
XYZ	16.5339, 8.4545, 3.8924
YIQ	55.7470, 83.1610, 51.2650

# Conversions

## Conversions Part 2

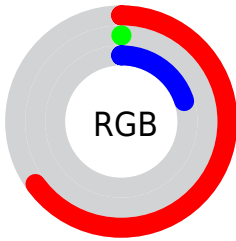
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	167, 0, 51
Decimal	10944563
CIE <sub>Lab</sub>	34.91, 59.67, 21.90
CIE <sub>LCh</sub>	35, 63.556, 20.151
Yxy	8.4545, 0.5725, 0.2927
Android (android.graphics.Color)	4289134643 (0xFFA70033)
YUV	55.7470, -2.3403, 97.5689
Hunter-Lab	29.0766, 50.6167, 12.4167

# Details

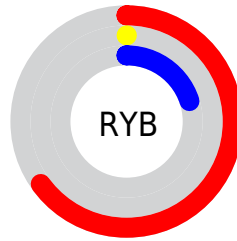
The XYZ color **16.5339, 8.4545, 3.8924** is a dark color, and the websafe version is hex **990033**. A complement of this color would be **16.9728, 28.8990, 21.2143**, and the grayscale version is **3.7236, 3.9175, 4.2661**.

A 20% lighter version of the original color is **37.1246, 22.8288, 13.7590**, and **6.1018, 3.1411, 0.4857** is the 20% darker color. If you saturate the color by 10%, you get **16.5334, 8.4543, 3.8903**, and if you desaturate by 10%, it is **17.0186, 8.9623, 5.4774**.

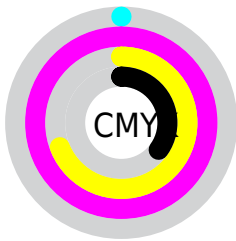
# Distribution



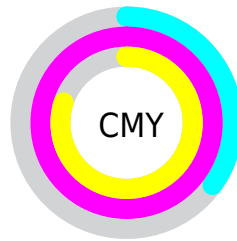
- Red (65%)
- Green (0%)
- Blue (20%)



- Red (65%)
- Yellow (0%)
- Blue (20%)



- Cyan (0%)
- Magenta (100%)
- Yellow (69%)
- Black (35%)




- Cyan (35%)
- Magenta (100%)
- Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 16.5339, 8.4545, 3.8924 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 16.5339, 8.4545, 3.8924 by changing the saturation by 10% instead.




 16.5339, 8.4545,  
3.8924


 16.5339, 8.4545,  
3.8924


225.6809,  
179.2547, 147.0218


 9.9960, 4.3871,  
1.5665


 37.0726, 22.8447,  
13.7608


 5.4585, 1.8924,  
0.2667

 51.8042, 33.9364,  
22.1404


 2.5562, 0.5438,  
0.0000

 69.9976, 48.1383,  
33.3751

 0.9237, 0.0000,  
0.0000

 92.0183, 65.8348,  
47.8832

 0.0000, 0.0000,  
0.0000

 118.2316, 87.4102,  
66.0834

 149.0029,

113.2491, 88.3942

184.6975,  
143.7358, 115.2341

16.5339, 8.4545,  
3.8924

16.5339, 8.4545,  
3.8924

16.5334, 8.4543,  
3.8903

17.0186, 8.9623,  
5.4774

17.7349, 9.8241,  
7.4761

18.7541, 11.1762,  
9.9318

20.1098, 13.0798,  
12.8738

21.8307, 15.5871,  
16.3285

■ 23.9425, 18.7441,  
20.3203

■ 26.4683, 22.5925,  
24.8718

■ 29.4296, 27.1703,  
30.0044

■ 32.8461, 32.5128,  
35.7382

# Harmonies

## Analogous

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



17.0644, 8.4545, 13.0668



16.5339, 8.4545, 3.8924



13.3911, 8.4545, 0.7969

# Triad

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



16.5339, 8.4545, 3.8924



3.7790, 8.4545, 1.4180



6.8997, 8.4545, 46.3027

# Complementary

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



16.5339, 8.4545, 3.8924



16.9728, 28.8990, 21.2143

# 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.



4.3409, 8.4545, 34.6716



16.5339, 8.4545, 3.8924



2.9330, 8.4545, 6.1914

# Square

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



16.5339, 8.4545, 3.8924



5.8625, 8.4545, 0.0369



3.1018, 8.4545, 17.9550



10.6890, 8.4545, 43.6278



# Rectangle

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



16.5339, 8.4545, 3.8924



10.6472, 8.4545, 0.0288



3.1018, 8.4545, 17.9550



5.8906, 8.4545, 43.7297

# Sweetspot

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



16.5341, 8.4550, 3.8925



47.1304, 40.0430, 44.0616



13.9310, 6.3763, 37.0555



10.1198, 8.3076, 9.0981



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.



16.5341, 8.4550, 3.8925



29.5294, 15.1088, 6.5405



16.4170, 9.1767, 0.9067



7.6219, 7.5786, 8.3261



12.6712, 6.4772, 3.0803



0.3308, 0.1666, 0.1936



# Inverse Universe

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



16.5341, 8.4550, 3.8925



29.5294, 15.1088, 6.5405



15.8342, 20.5079, 39.6829



7.6219, 7.5786, 8.3261



12.6712, 6.4772, 3.0803



0.3308, 0.1666, 0.1936



# Previews

## White Background



This preview shows how the XYZ color 16.5339, 8.4545, 3.8924 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

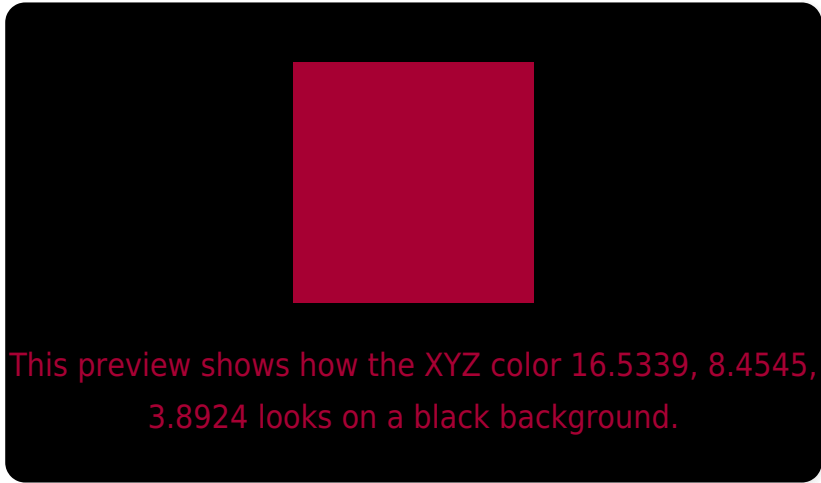
Any Text WCAG AA ✓ Pass

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

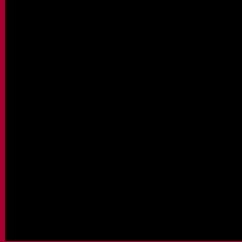
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 16.5339, 8.4545, 3.8924**

## **Background**



This preview shows how black text looks on a background with the XYZ color 16.5339, 8.4545, 3.8924.



This preview shows how white text looks on a background with the XYZ color 16.5339, 8.4545,



# 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

16.5339, 8.4545, 3.8924

### Protanopia

8.6728, 9.1426, 8.1451

### Deuteranopia

9.2042, 9.0625, 3.5496



## Tritanopia

16.0952, 8.6838, 1.3581

# Trichromacy



## Original Color

16.5339, 8.4545, 3.8924

## Protanomaly

9.6684, 6.8255, 6.1181

## Deuteranomaly

10.6232, 7.2424, 3.4228

## Tritanomaly

16.0916, 8.4835, 1.9518

# Monochromacy



## Original Color

16.5339, 8.4545, 3.8924

## Achromatopsia

3.7589, 3.9546, 4.3066

## Achromatomaly

6.1206, 4.0149, 3.9424

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 16.5339, 8.4545, 3.8924 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(167, 0, 51)` looks like.

```
.text, #text, p{  
    color:rgb(167, 0, 51)  
}
```

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(167, 0, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(167, 0, 51) }
```

## Border

The CSS property to change the border of an element to XYZ 16.5339, 8.4545, 3.8924 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(167, 0, 51) }
```



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

```
.border{ border-color:rgb(167, 0, 51) }
```

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

Here you see how a box with a 4 pixel rgb(167, 0, 51) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(167, 0, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(167, 0, 51);  
box-shadow:4px 4px 4px 4px rgb(167, 0, 51)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 16.5339, 8.4545, 3.8924 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(167, 0, 51) }
```

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

```
.background{ background-color: rgb(167, 0,  
51) }
```

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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