

# Converting Colors

XYZ(16.4669, 10.0196, 2.4793)

Have a look what the booklet for  
XYZ(16.4669, 10.0196, 2.4793)  
contains.

<b>XYZ(16.4357, 10.0102, 2.5048)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(16.4357, 10.0102,  
2.5048)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A33021
RGB	163, 48, 33
RGB Percent	64%, 19%, 13%
CMY	0.3608, 0.8117, 0.8706
CMYK	0.00, 0.71, 0.80, 0.36
HSL	7°, 66%, 38%
HSV	7°, 80%, 64%
XYZ	16.4357, 10.0102, 2.5048
YIQ	80.6750, 73.3550, 19.7150

# Conversions

## Conversions Part 2

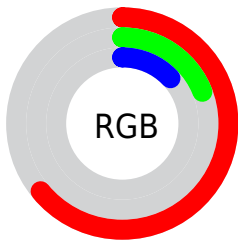
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	163, 50, 33
Decimal	10694689
CIE <sub>Lab</sub>	37.86, 46.40, 35.98
CIE <sub>LCh</sub>	38, 58.719, 37.791
Yxy	10.0102, 0.5677, 0.3458
Android (android.graphics.Color)	4288884769 (0xFFA33021)
YUV	80.6750, -23.5038, 72.1990
Hunter-Lab	31.6389, 37.3587, 17.4533

# Details

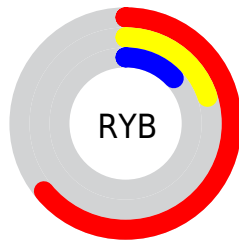
The XYZ color **16.4357, 10.0102, 2.5048** is a dark color, and the websafe version is hex **993333**. A complement of this color would be **17.8269, 24.1454, 38.3710**, and the grayscale version is **7.7922, 8.1980, 8.9277**.

A 20% lighter version of the original color is **36.8054, 25.7192, 10.4216**, and **5.7089, 2.9431, 0.2672** is the 20% darker color. If you saturate the color by 10%, you get **15.7633, 8.9467, 1.4142**, and if you desaturate by 10%, it is **17.4108, 11.5025, 4.2417**.

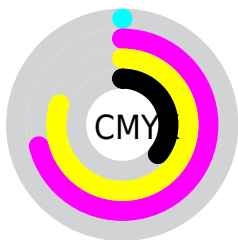
# Distribution



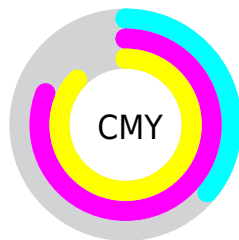
- Red (64%)
- Green (19%)
- Blue (13%)



- Red (64%)
- Yellow (20%)
- Blue (13%)



- Cyan (0%)
- Magenta (71%)
- Yellow (80%)
- Black (36%)



- Cyan (36%)
- Magenta (81%)
- Yellow (87%)
- Black (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 16.4357, 10.0102, 2.5048 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 16.4357, 10.0102, 2.5048 by changing the saturation by 10% instead.



■ 16.4357, 10.0102,  
2.5048

■ 16.4357, 10.0102,  
2.5048

225.1193,  
190.7448, 129.7795

■ 9.9258, 5.4057,  
0.8427

■ 36.9043, 25.8147,  
10.3799

■ 5.4117, 2.4872,  
0.0000

■ 51.5938, 37.7835,  
17.4350

■ 2.5280, 0.8702,  
0.0000

■ 69.7404, 52.9758,  
27.1265

■ 0.9094, 0.0000,  
0.0000


■ 91.7096, 71.7761,  
39.8730


■ 0.0000, 0.0000,  
0.0000


■ 117.8668, 94.5688,  
56.0930


■ 148.5772,


121.7382, 76.2051


 184.2063,  
153.6688, 100.6278


 16.4357, 10.0102,  
2.5048


 16.4357, 10.0102,  
2.5048


 15.7633, 8.9467,  
1.4142


 17.4108, 11.5025,  
4.2417


 15.3421, 8.2589,  
0.7970

 18.7188, 13.4611,  
6.7045

 15.3339, 8.2460,  
0.7834

 20.3869, 15.9213,  
9.9616

 22.4395, 18.9146,  
14.0733

 24.8984, 22.4697,  
19.0943

■ 27.7842, 26.6135,  
25.0746

■ 31.1159, 31.3709,  
32.0605

■ 34.9112, 36.7657,  
40.0954

■ 39.1872, 42.8201,  
49.2201

# Harmonies

## Analogous

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



18.6092, 10.0102, 8.3299



16.4357, 10.0102, 2.5048



12.5123, 10.0102, 0.7631

# Triad

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



16.4357, 10.0102, 2.5048



4.2736, 10.0102, 4.8034



10.5270, 10.0102, 46.8972

# Complementary

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



16.4357, 10.0102, 2.5048



17.8269, 24.1454, 38.3710

# 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.



7.0382, 10.0102, 43.4335



16.4357, 10.0102, 2.5048



4.0044, 10.0102, 13.9495

# Square

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



16.4357, 10.0102, 2.5048



5.7407, 10.0102, 1.3650



4.8737, 10.0102, 29.1125



14.6594, 10.0102, 36.7623



# Rectangle

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



16.4357, 10.0102, 2.5048



9.7953, 10.0102, 0.4616



4.8737, 10.0102, 29.1125



9.2389, 10.0102, 47.3631

# Sweetspot

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



16.4359, 10.0108, 2.5050



47.2378, 44.0472, 39.6630



21.1530, 11.0763, 29.8770



10.2227, 9.3371, 8.1084



78.6606, 82.7571, 90.1225



14.0027, 14.7319, 16.0430



# Same Dimension

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



16.4359, 10.0108, 2.5050



27.6113, 14.9924, 1.6816



21.0631, 19.2652, 4.0474



7.1366, 7.2116, 7.3959



11.9359, 6.4456, 0.6150



0.2690, 0.1719, 0.0190



# Inverse Universe

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



17.8269, 24.1454, 38.3710



29.9706, 40.8407, 68.3595



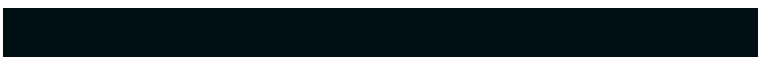
10.4866, 9.4648, 35.9242



7.2060, 7.8710, 9.0425



12.9318, 17.6431, 29.6537



0.2901, 0.4076, 0.6292



# Previews

## White Background



This preview shows how the XYZ color 16.4357, 10.0102, 2.5048 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



This preview shows how the XYZ color 16.4357, 10.0102, 2.5048 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

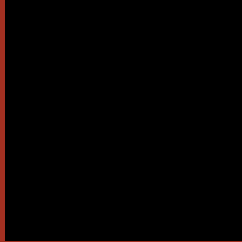
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 16.4357, 10.0102, 2.5048**

## **Background**



This preview shows how black text looks on a background with the XYZ color 16.4357, 10.0102, 2.5048.



This preview shows how white text looks on a background with the XYZ color 16.4357, 10.0102,



# 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

16.4357, 10.0102, 2.5048

### Protanopia

9.3853, 10.2111, 3.9589

### Deuteranopia

10.2925, 10.2281, 2.2424



## Tritanopia

16.6148, 9.9539, 3.8419

# Trichromacy



## Original Color

16.4357, 10.0102, 2.5048

## Protanomaly

11.0847, 9.4032, 3.3286

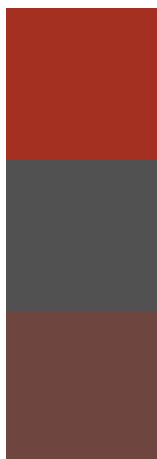
## Deuteranomaly

11.8753, 9.5392, 2.2523

## Tritanomaly

16.5568, 9.9940, 3.3419

# Monochromacy



## Original Color

16.4357, 10.0102, 2.5048

## Achromatopsia

7.8210, 8.2283, 8.9606

## Achromatomaly

9.6091, 8.0059, 5.8893

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 16.4357, 10.0102, 2.5048 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(163, 48, 33)` looks like.

```
.text, #text, p{  
  color:rgb(163, 48, 33)  
}
```

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(163, 48, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(163, 48, 33) }
```

## Border

The CSS property to change the border of an element to XYZ 16.4357, 10.0102, 2.5048 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(163, 48, 33) }
```



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

```
.border{ border-color:rgb(163, 48, 33) }
```

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

Here you see how a box with a 4 pixel `rgb(163, 48, 33)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(163, 48, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(163, 48, 33);  
box-shadow:4px 4px 4px 4px rgb(163, 48,  
33) }
```

# Background

The CSS property to change the background color of an element to XYZ 16.4357, 10.0102, 2.5048 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(163, 48, 33) }
```

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

```
.background{ background-color: rgb(163, 48,  
33) }
```

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