

# Converting Colors

XYZ(16.1709, 16.2242, 2.2793)

Have a look what the booklet for  
XYZ(16.1709, 16.2242, 2.2793)  
contains.

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# Color

**XYZ(16.1778, 16.3006,  
2.2937)**

# Conversions

## Conversions Part 1

Format	Color
Hex	8C6C00
RGB	140, 108, 0
RGB Percent	55%, 42%, 0%
CMY	0.4510, 0.5765, 1.0000
CMYK	0.00, 0.23, 1.00, 0.45
HSL	46°, 100%, 27%
HSV	46°, 100%, 55%
XYZ	16.1778, 16.3006, 2.2937
YIQ	105.2560, 53.7400, -26.8040

# Conversions

## Conversions Part 2

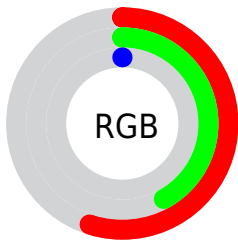
Format	Color
R <sub>Y</sub> B	41, 140, 0
Decimal	9202688
CIE Lab	47.37, 3.96, 54.02
CIE LCh	47, 54.162, 85.802
Yxy	16.3006, 0.4653, 0.4688
Android (android.graphics.Color)	4287392768 (0xFF8C6C00)
YUV	105.2560, -51.8912, 30.4705
Hunter-Lab	40.3740, 0.8702, 24.8935

# Details

The XYZ color **16.1778, 16.3006, 2.2937** is a dark color, and the websafe version is hex **996600**. A complement of this color would be **5.2503, 2.9267, 25.0989**, and the grayscale version is **13.6237, 14.3332, 15.6088**.

A 20% lighter version of the original color is **36.5563, 37.1498, 9.8013**, and **5.4151, 5.2688, 0.7316** is the 20% darker color. If you saturate the color by 10%, you get **16.1779, 16.3010, 2.2937**, and if you desaturate by 10%, it is **16.6011, 17.0205, 2.8260**.

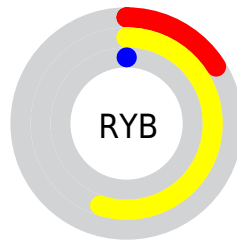
# Distribution



Red (55%)

Green (42%)

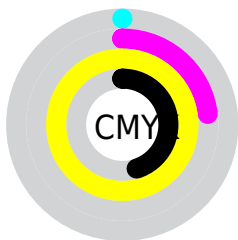
Blue (0%)



Red (16%)

Yellow (55%)

Blue (0%)

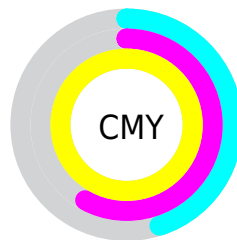


Cyan (0%)

Magenta (23%)

Yellow (100%)

Black (45%)



Cyan (45%)

Magenta (58%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 16.1778, 16.3006, 2.2937 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 16.1778, 16.3006, 2.2937 by changing the saturation by 10% instead.



■ 16.1778, 16.3006,  
2.2937

■ 16.1778, 16.3006,  
2.2937

223.6384,  
231.1090, 126.7825

■ 9.7417, 9.7371,  
0.7277

■ 36.4616, 37.1193,  
9.8292

■ 5.2890, 5.2250,  
0.0000

■ 51.0399, 52.1433,  
16.6547

■ 2.4543, 2.3799,  
0.0000

■ 69.0631, 70.7562,  
26.0766

■ 0.8723, 0.8155,  
0.0000


■ 90.8964, 93.3425,  
38.5135


■ 0.0000, 0.0000,  
0.0000


■ 116.9053,  
120.2865, 54.3841


■ 147.4550,


151.9727, 74.1067


 182.9109,  
188.7854, 98.1000


 16.1778, 16.3006,  
2.2937


 16.1778, 16.3006,  
2.2937


 16.1779, 16.3010,  
2.2937

 16.6011, 17.0205,  
2.8260

 17.0877, 17.7851,  
3.6313

 17.6650, 18.6062,  
4.8515

 18.3426, 19.4879,  
6.5371

 19.1288, 20.4337,  
8.7314

■ 20.0312, 21.4467,  
11.4728

■ 21.0563, 22.5298,  
14.7959

■ 22.2103, 23.6857,  
18.7324

■ 23.4989, 24.9169,  
23.3119

# Harmonies

## Analogous

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



21.2725, 16.3006, 3.6446



16.1778, 16.3006, 2.2937



11.8178, 16.3006, 3.0125

# Triad

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



16.1778, 16.3006, 2.2937



8.5885, 16.3006, 31.8954



24.4352, 16.3006, 37.1028

# Complementary

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



16.1778, 16.3006, 2.2937



5.2503, 2.9267, 25.0989

# 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.



19.8612, 16.3006, 53.6984



16.1778, 16.3006, 2.2937



10.8687, 16.3006, 49.7567

# Square

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



16.1778, 16.3006, 2.2937



7.9991, 16.3006, 15.8855



14.8283, 16.3006, 59.2353



26.6232, 16.3006, 19.7519



# Rectangle

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



16.1778, 16.3006, 2.2937



9.7802, 16.3006, 4.9737



14.8283, 16.3006, 59.2353



23.0851, 16.3006, 43.2433

# Sweetspot

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



16.1782, 16.3014, 2.2940



37.0017, 39.5960, 25.6808



11.0852, 5.6835, 1.9277



8.3662, 8.9573, 5.3920



67.5393, 71.0566, 77.3807



10.1266, 10.6539, 11.6021



# Same Dimension

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



16.1782, 16.3014, 2.2940



28.3978, 28.4899, 4.0024



14.9336, 21.6200, 3.3862



5.3358, 5.6544, 5.3626



14.3902, 14.5147, 2.0432



0.1065, 0.1183, 0.0172



# Inverse Universe

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



5.2503, 2.9267, 25.0989



9.1517, 4.9505, 44.2162



5.5088, 2.2932, 24.9630



4.8614, 5.0658, 6.3274



4.6781, 2.6265, 22.3061



0.0406, 0.0365, 0.1514



# Previews

## White Background



This preview shows how the XYZ color 16.1778, 16.3006, 2.2937 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 × Fail



# 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 16.1778, 16.3006, 2.2937**

## **Background**



This preview shows how black text looks on a background with the XYZ color 16.1778, 16.3006, 2.2937.



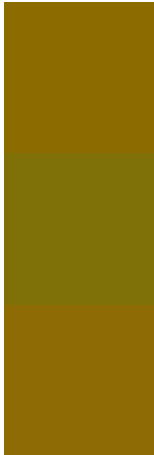
This preview shows how white text looks on a background with the XYZ color 16.1778, 16.3006,



# 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

16.1778, 16.3006, 2.2937

### Protanopia

14.6959, 16.3376, 2.5799

### Deuteranopia

16.6183, 16.3682, 2.4558



## Tritanopia

18.9410, 16.2168, 16.3192

# Trichromacy



## Original Color

16.1778, 16.3006, 2.2937

## Protanomaly

15.2221, 16.2832, 2.4555

## Deuteranomaly

16.4349, 16.2749, 2.3900

## Tritanomaly

17.2521, 15.9698, 7.8034

# Monochromacy



## Original Color

16.1778, 16.3006, 2.2937

## Achromatopsia

13.4271, 14.1263, 15.3836

## Achromatomaly

13.6384, 14.5649, 7.4027

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 16.1778, 16.3006, 2.2937 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(140, 108, 0)` looks like.

```
.text, #text, p{  
    color:rgb(140, 108, 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(140, 108, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(140, 108, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 16.1778, 16.3006, 2.2937 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(140, 108, 0) }
```



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

```
.border{ border-color:rgb(140, 108, 0) }
```

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

Here you see how a box with a 4 pixel rgb(140, 108, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(140, 108, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(140, 108, 0);  
box-shadow:4px 4px 4px 4px rgb(140, 108,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 16.1778, 16.3006, 2.2937 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(140, 108, 0) }
```

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

```
.background{ background-color: rgb(140,  
108, 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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