

# Converting Colors

XYZ(16.9266, 11.4313, 1.3143)

Have a look what the booklet for  
XYZ(16.9266, 11.4313, 1.3143)  
contains.

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# Color

**XYZ(16.9377, 11.4533,  
1.3180)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A34000
RGB	163, 64, 0
RGB Percent	64%, 25%, 0%
CMY	0.3608, 0.7490, 1.0000
CMYK	0.00, 0.61, 1.00, 0.36
HSL	24°, 100%, 32%
HSV	24°, 100%, 64%
XYZ	16.9377, 11.4533, 1.3180
YIQ	86.3050, 79.5480, 1.0840

# Conversions

## Conversions Part 2

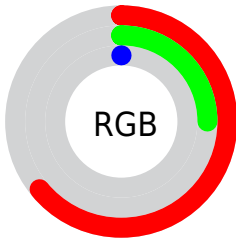
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	163, 105, 0
Decimal	10698752
CIE <sub>Lab</sub>	40.33, 38.55, 51.21
CIE <sub>LCh</sub>	40, 64.095, 53.025
Yxy	11.4533, 0.5701, 0.3855
Android (android.graphics.Color)	4288888832 (0xFFA34000)
YUV	86.3050, -42.5484, 67.2615
Hunter-Lab	33.8427, 30.1114, 21.3809

# Details

The XYZ color **16.9377, 11.4533, 1.3180** is a dark color, and the websafe version is hex **993300**. A complement of this color would be **11.0724, 11.5674, 36.2994**, and the grayscale version is **8.9868, 9.4548, 10.2962**.

A 20% lighter version of the original color is **37.8717, 28.5449, 7.1281**, and **5.6912, 3.0789, 0.2943** is the 20% darker color. If you saturate the color by 10%, you get **16.9378, 11.4538, 1.3181**, and if you desaturate by 10%, it is **17.6425, 12.7098, 2.0255**.

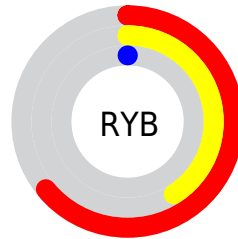
# Distribution



Red (64%)

Green (25%)

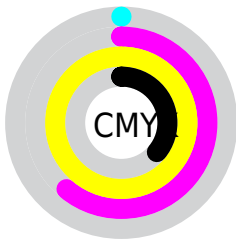
Blue (0%)



Red (64%)

Yellow (41%)

Blue (0%)

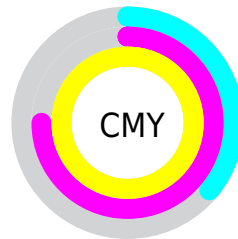


Cyan (0%)

Magenta (61%)

Yellow (100%)

Black (36%)



Cyan (36%)

Magenta (75%)


Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 16.9377, 11.4533, 1.3180 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 16.9377, 11.4533, 1.3180 by changing the saturation by 10% instead.





 16.9377, 11.4533,  
1.3180


 16.9377, 11.4533,  
1.3180


 227.9764,  
200.7516, 110.6793


 10.2851, 6.3726,  
0.0765


 37.7631, 28.4954,  
7.0747


 5.6521, 3.0729,  
0.0000

 52.6666, 41.2256,  
12.6715

 2.6734, 1.1699,  
0.0000

 71.0511, 57.2744,  
20.6387

 0.9835, 0.0369,  
0.0000

 93.2820, 77.0262,  
31.3948


 0.0000, 0.0000,  
0.0000


 119.7246,  
100.8655, 45.3584


 150.7443,


129.1765, 62.9479


 186.7064,  
162.3438, 84.5821


 16.9377, 11.4533,  
1.3180


 16.9377, 11.4533,  
1.3180


 16.9378, 11.4538,  
1.3181

 17.6425, 12.7098,  
2.0255

 18.5284, 14.2045,  
3.1750

 19.6330, 15.9604,  
4.9409

 20.9748, 17.9916,  
7.3991

 22.5698, 20.3111,  
10.6146

■ 24.4326, 22.9308,  
14.6448

■ 26.5764, 25.8618,  
19.5413

■ 29.0134, 29.1148,  
25.3516

■ 31.7553, 32.6996,  
32.1195

# Harmonies

## Analogous

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



20.9032, 11.4533, 5.0921



16.9377, 11.4533, 1.3180



11.9667, 11.4533, 0.4139

# Triad

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



16.9377, 11.4533, 1.3180



4.3754, 11.4533, 9.7066



14.6179, 11.4533, 51.7858

# Complementary

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



16.9377, 11.4533, 1.3180



11.0724, 11.5674, 36.2994

# 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.



9.8724, 11.4533, 56.5335



16.9377, 11.4533, 1.3180



4.7236, 11.4533, 24.8343

# Square

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



16.9377, 11.4533, 1.3180



5.3493, 11.4533, 2.7355



6.4807, 11.4533, 44.4202



19.3274, 11.4533, 33.9936



# Rectangle

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



16.9377, 11.4533, 1.3180



9.0564, 11.4533, 0.4960



6.4807, 11.4533, 44.4202



12.9468, 11.4533, 55.3030

# Sweetspot

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



16.9379, 11.4540, 1.3182



47.3685, 46.0087, 34.4653



17.4296, 8.7167, 12.9522



10.2813, 9.8477, 6.9152



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.



16.9379, 11.4540, 1.3182



30.1521, 20.1480, 2.2998



25.0750, 27.7280, 4.0305



7.2913, 7.5209, 7.4475



13.2056, 8.9851, 1.0383



0.3227, 0.2793, 0.0369



# Inverse Universe

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



11.0724, 11.5674, 36.2994



19.6297, 20.3161, 64.9429



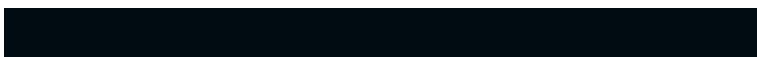
6.8441, 3.1107, 34.8899



7.0415, 7.5420, 8.9877



8.6503, 9.0800, 28.2265



0.2258, 0.2789, 0.6078



# Previews

## White Background



This preview shows how the XYZ color 16.9377, 11.4533, 1.3180 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



This preview shows how the XYZ color 16.9377, 11.4533, 1.3180 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 16.9377, 11.4533, 1.3180**

## **Background**



This preview shows how black text looks on a background with the XYZ color 16.9377, 11.4533, 1.3180.



This preview shows how white text looks on a background with the XYZ color 16.9377, 11.4533,



# 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

16.9377, 11.4533, 1.3180

### Protanopia

10.4607, 11.5913, 2.1762

### Deuteranopia

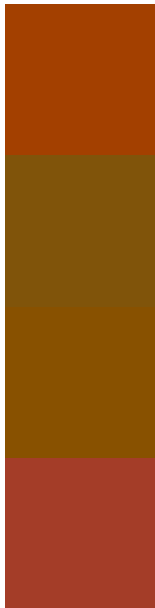
11.6262, 11.5471, 1.6160



## Tritanopia

17.8229, 11.4831, 5.9797

# Trichromacy



## Original Color

16.9377, 11.4533, 1.3180

## Protanomaly

12.1272, 10.9518, 1.7619

## Deuteranomaly

13.0958, 11.1191, 1.4560

## Tritanomaly

17.3616, 11.3832, 3.2896

# Monochromacy



## Original Color

16.9377, 11.4533, 1.3180

## Achromatopsia

8.8453, 9.3059, 10.1341

## Achromatomaly

10.3534, 9.3020, 4.8642

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 16.9377, 11.4533, 1.3180 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, 64, 0)` looks like.

```
.text, #text, p{  
    color:rgb(163, 64, 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(163, 64, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(163, 64, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 16.9377, 11.4533, 1.3180 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, 64, 0) }
```



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

```
.border{ border-color:rgb(163, 64, 0) }
```

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

Here you see how a box with a 4 pixel rgb(163, 64, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(163, 64, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(163, 64, 0);  
box-shadow:4px 4px 4px 4px rgb(163, 64, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 16.9377, 11.4533, 1.3180 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(163, 64, 0) }
```

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

```
.background{ background-color: rgb(163, 64,  
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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