

# Converting Colors

XYZ(16.6505, 12.1943, 2.0484)

Have a look what the booklet for  
XYZ(16.6505, 12.1943, 2.0484)  
contains.

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# Color

**XYZ(16.6585, 12.2103,  
2.0511)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9E4A12
RGB	158, 74, 18
RGB Percent	62%, 29%, 7%
CMY	0.3804, 0.7098, 0.9294
CMYK	0.00, 0.53, 0.89, 0.38
HSL	24°, 80%, 35%
HSV	24°, 89%, 62%
XYZ	16.6585, 12.2103, 2.0511
YIQ	92.7320, 68.0400, 0.3920

# Conversions

## Conversions Part 2

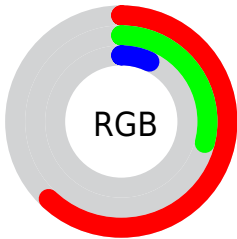
Format	Color
R <sub>Y</sub> B	158, 111, 18
Decimal	10373650
CIE Lab	41.55, 31.76, 46.01
CIE LCh	42, 55.904, 55.381
Yxy	12.2103, 0.5388, 0.3949
Android (android.graphics.Color)	4288563730 (0xFF9E4A12)
YUV	92.7320, -36.8429, 57.2400
Hunter-Lab	34.9432, 23.9457, 20.9801

# Details

The XYZ color **16.6585, 12.2103, 2.0511** is a dark color, and the websafe version is hex **993300**. A complement of this color would be **11.1720, 12.0993, 34.0941**, and the grayscale version is **10.4144, 10.9568, 11.9319**.

A 20% lighter version of the original color is **37.1342, 29.7260, 9.0907**, and **5.6249, 3.4481, 0.3691** is the 20% darker color. If you saturate the color by 10%, you get **15.9757, 11.0002, 1.3445**, and if you desaturate by 10%, it is **17.5168, 13.6443, 3.2088**.

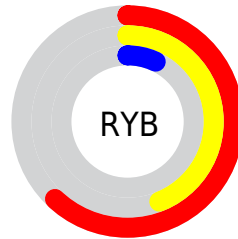
# Distribution



Red (62%)

Green (29%)

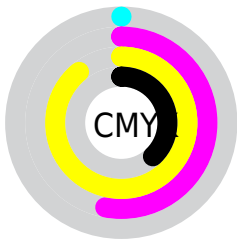
Blue (7%)



Red (62%)

Yellow (44%)

Blue (7%)

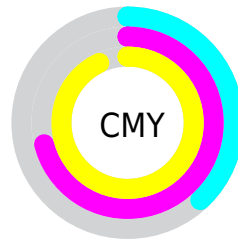


Cyan (0%)

Magenta (53%)

Yellow (89%)

Black (38%)



Cyan (38%)

Magenta (71%)


Yellow (93%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 16.6585, 12.2103, 2.0511 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 16.6585, 12.2103, 2.0511 by changing the saturation by 10% instead.





 16.6585, 12.2103,  
2.0511


 16.6585, 12.2103,  
2.0511


226.3915,  
205.7926, 123.1653


 10.0851, 6.8871,  
0.5864


 37.2860, 29.8775,  
9.1800


 5.5181, 3.3916,  
0.0000

 52.0707, 42.9904,  
15.7286


 2.5922, 1.3394,  
0.0000

 70.3234, 59.4685,  
24.8246

 0.9420, 0.1714,  
0.0000


 92.4092, 79.6963,  
36.8866


 0.0000, 0.0000,  
0.0000


 118.6935,  
104.0582, 52.3331


 149.5418,


132.9387, 71.5827


 185.3193,  
166.7220, 95.0539


 16.6585, 12.2103,  
2.0511


 16.6585, 12.2103,  
2.0511


 15.9757, 11.0002,  
1.3445


 17.5168, 13.6443,  
3.2088

 15.8893, 10.8467,  
1.2562

 18.5788, 15.3183,  
4.9503

 19.8614, 17.2456,  
7.3443

 21.3789, 19.4376,  
10.4494

 23.1446, 21.9050,  
14.3180

■ 25.1704, 24.6578,  
18.9972

■ 27.4675, 27.7055,  
24.5304

■ 30.0463, 31.0571,  
30.9579

■ 32.9167, 34.7210,  
38.3173

# Harmonies

## Analogous

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



20.2363, 12.2103, 5.8016



16.6585, 12.2103, 2.0511



12.2490, 12.2103, 1.1202

# Triad

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



16.6585, 12.2103, 2.0511



5.4098, 12.2103, 11.5660



15.3042, 12.2103, 45.6870

# Complementary

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



16.6585, 12.2103, 2.0511



11.1720, 12.0993, 34.0941

# 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.



10.9850, 12.2103, 50.6282



16.6585, 12.2103, 2.0511



5.8618, 12.2103, 25.4406

# Square

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



16.6585, 12.2103, 2.0511



6.2718, 12.2103, 4.1786



7.6941, 12.2103, 41.6883



19.3345, 12.2103, 30.5845



# Rectangle

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



16.6585, 12.2103, 2.0511



9.6463, 12.2103, 1.2669



7.6941, 12.2103, 41.6883



13.8136, 12.2103, 48.8644

# Sweetspot

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



16.6588, 12.2110, 2.0513



46.1357, 45.3498, 35.5070



16.7151, 8.6611, 13.3613



10.1208, 9.8472, 7.3443



76.7382, 80.7346, 87.9200



13.3056, 13.9985, 15.2444



# Same Dimension

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



16.6588, 12.2110, 2.0513



28.6713, 19.3301, 2.2199



24.1829, 27.2592, 4.5593



6.8399, 7.0599, 6.9879



12.7624, 8.7603, 1.0183



0.2684, 0.2370, 0.0316



# Inverse Universe

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



11.1720, 12.0993, 34.0941



18.4057, 18.8793, 61.4174



6.9376, 3.6304, 32.6826



6.5990, 7.0638, 8.4223



8.2448, 8.5811, 27.1290



0.1880, 0.2346, 0.4986



# Previews

## White Background



This preview shows how the XYZ color 16.6585, 12.2103, 2.0511 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 16.6585, 12.2103, 2.0511 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 16.6585, 12.2103, 2.0511**

## **Background**



This preview shows how black text looks on a background with the XYZ color 16.6585, 12.2103, 2.0511.



This preview shows how white text looks on a background with the XYZ color 16.6585, 12.2103,



# 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

16.6585, 12.2103, 2.0511

### Protanopia

11.1823, 12.3691, 2.6623

### Deuteranopia

12.4602, 12.3654, 1.7300



## Tritanopia

17.8614, 12.2242, 7.8967

# Trichromacy



## Original Color

16.6585, 12.2103, 2.0511

## Protanomaly

12.7031, 11.9595, 2.3979

## Deuteranomaly

13.7631, 12.1501, 1.8208

## Tritanomaly

17.2172, 12.1437, 4.9266

# Monochromacy



## Original Color

16.6585, 12.2103, 2.0511

## Achromatopsia

10.4043, 10.9462, 11.9204

## Achromatomaly

11.6473, 10.8308, 6.6309

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 16.6585, 12.2103, 2.0511 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(158, 74, 18)` looks like.

```
.text, #text, p{  
  color:rgb(158, 74, 18)  
}
```

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(158, 74, 18) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(158, 74, 18) }
```

## Border

The CSS property to change the border of an element to XYZ 16.6585, 12.2103, 2.0511 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(158, 74, 18) }
```



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

```
.border{ border-color:rgb(158, 74, 18) }
```

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

Here you see how a box with a 4 pixel rgb(158, 74, 18) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(158, 74, 18); -webkit-box-  
shadow:4px 4px 4px 4px rgb(158, 74, 18);  
box-shadow:4px 4px 4px 4px rgb(158, 74,  
18) }
```

# Background

The CSS property to change the background color of an element to XYZ 16.6585, 12.2103, 2.0511 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(158, 74, 18) }
```

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

```
.background{ background-color: rgb(158, 74,  
18) }
```

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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