

# Converting Colors

XYZ(18.6902, 12.3480, 0.6715)

Have a look what the booklet for  
XYZ(18.6902, 12.3480, 0.6715)  
contains.

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# Color

**XYZ(18.8467, 12.4374,  
1.4073)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	AC4000
RGB	172, 64, 0
RGB Percent	67%, 25%, 0%
CMY	0.3255, 0.7490, 1.0000
CMYK	0.00, 0.63, 1.00, 0.33
HSL	22°, 100%, 34%
HSV	22°, 100%, 67%
XYZ	18.8467, 12.4374, 1.4073
YIQ	88.9960, 84.9120, 2.9920

# Conversions

## Conversions Part 2

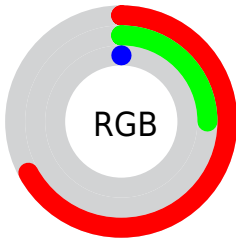
<b>Format</b>	<b>Color</b>
<b>RYB</b>	172, 102, 0
Decimal	11288576
CIELab	41.90, 41.98, 52.90
CIElCh	42, 67.533, 51.562
Yxy	12.4374, 0.5765, 0.3804
Android (android.graphics.Color)	4289478656 (0xFFAC4000)
YUV	88.9960, -43.8750, 72.7945
Hunter-Lab	35.2667, 33.6746, 22.3208

# Details

The XYZ color **18.8467, 12.4374, 1.4073** is a dark color, and the websafe version is hex **993300**. A complement of this color would be **12.8085, 13.7027, 40.9994**, and the grayscale version is **9.5760, 10.0747, 10.9714**.

A 20% lighter version of the original color is **40.8667, 30.2590, 7.3011**, and **6.6098, 3.4880, 0.3249** is the 20% darker color. If you saturate the color by 10%, you get **18.8469, 12.4380, 1.4074**, and if you desaturate by 10%, it is **19.6189, 13.8176, 2.1716**.

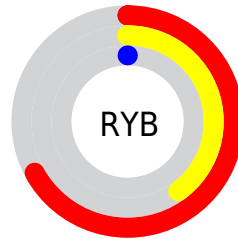
# Distribution



Red (67%)

Green (25%)

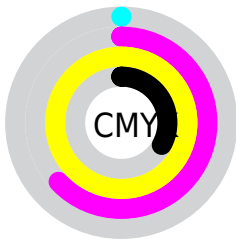
Blue (0%)



Red (67%)

Yellow (40%)

Blue (0%)

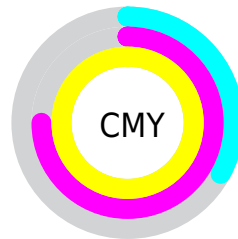


Cyan (0%)

Magenta (63%)

Yellow (100%)

Black (33%)



Cyan (33%)

Magenta (75%)


Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 18.8467, 12.4374, 1.4073 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 18.8467, 12.4374, 1.4073 by changing the saturation by 10% instead.





 18.8467, 12.4374,  
1.4073


 18.8467, 12.4374,  
1.4073


 238.5555,  
207.2799, 112.3629


 11.6629, 7.0423,  
0.1474


 40.9938, 30.2893,  
7.3459

 6.5851, 3.4886,  
0.0000


 56.6878, 43.5148,  
13.0706

 3.2480, 1.3918,  
0.0000

 75.9492, 60.1193,  
21.1903

 1.2863, 0.2107,  
0.0000

 99.1435, 80.4872,  
32.1235

 0.1729, 0.0000,  
0.0000


 126.6358,  
105.0028, 46.2889


 0.0000, 0.0000,  
0.0000


 158.7918,


134.0505, 64.1049


 195.9765,  
168.0147, 85.9900


 18.8467, 12.4374,  
1.4073


 18.8467, 12.4374,  
1.4073


 18.8469, 12.4380,  
1.4074

 19.6189, 13.8176,  
2.1716

 20.6041, 15.4811,  
3.4461

 21.8440, 17.4547,  
5.4198

 23.3602, 19.7558,  
8.1800

 25.1718, 22.4002,  
11.8014

■ 27.2958, 25.4026,  
16.3496

■ 29.7479, 28.7766,  
21.8839

■ 32.5424, 32.5353,  
28.4585

■ 35.6930, 36.6907,  
36.1238

# Harmonies

## Analogous

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



23.1801, 12.4374, 5.7452



18.8467, 12.4374, 1.4073



13.2862, 12.4374, 0.3807

# Triad

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



18.8467, 12.4374, 1.4073



4.6432, 12.4374, 9.8964



15.7102, 12.4374, 58.5531

# Complementary

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



18.8467, 12.4374, 1.4073



12.8085, 13.7027, 40.9994

# 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.



10.4684, 12.4374, 62.9744



18.8467, 12.4374, 1.4073



4.9543, 12.4374, 26.3609

# Square

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



18.8467, 12.4374, 1.4073



5.7855, 12.4374, 2.6349



6.8030, 12.4374, 48.4886



21.0433, 12.4374, 38.8191



# Rectangle

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



18.8467, 12.4374, 1.4073



10.0005, 12.4374, 0.4254



6.8030, 12.4374, 48.4886



13.8508, 12.4374, 62.2525

# Sweetspot

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



18.8470, 12.4381, 1.4075



53.7121, 51.8581, 39.1128



19.7700, 9.8734, 15.3131



11.2662, 10.7136, 7.5722



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123



# Same Dimension

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



18.8470, 12.4381, 1.4075



33.9966, 22.1753, 2.4884



27.7712, 30.2866, 4.3823



8.2403, 8.4853, 8.4169



14.0741, 9.3538, 1.0637



0.4449, 0.3670, 0.0474



# Inverse Universe

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



12.8085, 13.7027, 40.9994



23.0184, 24.4225, 74.3066



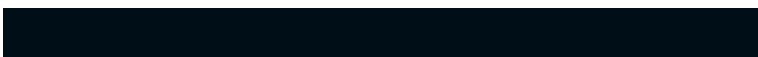
7.7515, 3.5888, 39.3138



7.9820, 8.5634, 10.1849



9.5854, 10.3047, 30.5283



0.3168, 0.3869, 0.8660



# Previews

## White Background



This preview shows how the XYZ color 18.8467, 12.4374, 1.4073 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 18.8467, 12.4374, 1.4073 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 18.8467, 12.4374, 1.4073**

## **Background**



This preview shows how black text looks on a background with the XYZ color 18.8467, 12.4374, 1.4073.



This preview shows how white text looks on a background with the XYZ color 18.8467, 12.4374,



# 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

18.8467, 12.4374, 1.4073

### Protanopia

11.3404, 12.5996, 2.3646

### Deuteranopia

12.6964, 12.6200, 1.7667



## Tritanopia

19.7466, 12.4748, 6.0697

# Trichromacy



## Original Color

18.8467, 12.4374, 1.4073

## Protanomaly

13.3001, 11.9089, 1.9143

## Deuteranomaly

14.4980, 12.1803, 1.5869

## Tritanomaly

19.2853, 12.3749, 3.3796

# Monochromacy



## Original Color

18.8467, 12.4374, 1.4073

## Achromatopsia

9.4954, 9.9899, 10.8790

## Achromatomaly

11.2149, 9.9547, 5.2012

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 18.8467, 12.4374, 1.4073 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(172, 64, 0)` looks like.

```
.text, #text, p{  
    color:rgb(172, 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(172, 64, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 64, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 18.8467, 12.4374, 1.4073 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(172, 64, 0) }
```



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

```
.border{ border-color:rgb(172, 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(172, 64, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 64, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 64, 0);  
box-shadow:4px 4px 4px 4px rgb(172, 64, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 18.8467, 12.4374, 1.4073 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 64, 0) }
```

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

```
.background{ background-color: rgb(172, 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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