

# Converting Colors

XYZ(22.0730, 18.3178, 0.7683)

Have a look what the booklet for  
XYZ(22.0730, 18.3178, 0.7683)  
contains.

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# Color

**XYZ(22.3329, 18.4213,  
2.3786)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AF6500
RGB	175, 101, 0
RGB Percent	69%, 40%, 0%
CMY	0.3137, 0.6039, 1.0000
CMYK	0.00, 0.42, 1.00, 0.31
HSL	35°, 100%, 34%
HSV	35°, 100%, 69%
XYZ	22.3329, 18.4213, 2.3786
YIQ	111.6120, 76.5250, -15.7230

# Conversions

## Conversions Part 2

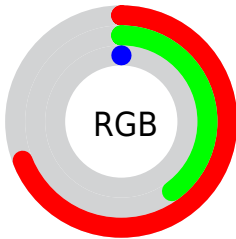
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	128, 175, 0
Decimal	11494656
CIE <sub>Lab</sub>	50.00, 24.04, 57.89
CIE <sub>LCh</sub>	50, 62.682, 67.449
Yxy	18.4213, 0.5178, 0.4271
Android (android.graphics.Color)	4289684736 (0xFFAF6500)
YUV	111.6120, -55.0247, 55.5913
Hunter-Lab	42.9200, 17.7701, 26.7582

# Details

The XYZ color **22.3329, 18.4213, 2.3786** is a dark color, and the websafe version is hex **996600**. A complement of this color would be **10.1867, 7.9928, 41.5631**, and the grayscale version is **15.4283, 16.2318, 17.6764**.

A 20% lighter version of the original color is **46.7175, 40.6482, 10.0862**, and **8.4756, 6.2592, 0.7614** is the 20% darker color. If you saturate the color by 10%, you get **22.3330, 18.4218, 2.3787**, and if you desaturate by 10%, it is **23.1896, 19.9667, 3.1830**.

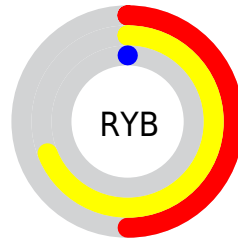
# Distribution



Red (69%)

Green (40%)

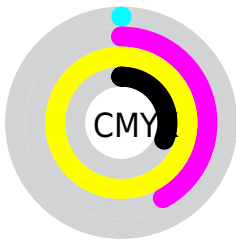
Blue (0%)



Red (50%)

Yellow (69%)

Blue (0%)

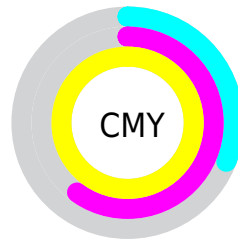


Cyan (0%)

Magenta (42%)

Yellow (100%)

Black (31%)



Cyan (31%)

Magenta (60%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 22.3329, 18.4213, 2.3786 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 22.3329, 18.4213, 2.3786 by changing the saturation by 10% instead.





 22.3329, 18.4213,  
2.3786


 22.3329, 18.4213,  
2.3786


256.8797,  
243.2351, 128.0035


 14.2197, 11.2529,  
0.7748


 46.7704, 40.7539,  
10.0522

 8.3563, 6.2372,  
0.0000


 63.8253, 56.6869,  
16.9712


 4.3775, 2.9898,  
0.0000

 84.5916, 76.3102,  
26.5030

 1.9178, 1.1264,  
0.0000

 109.4345,  
100.0082, 39.0661


 0.5872, 0.0004,  
0.0000


 138.7194,  
128.1653, 55.0792


 0.0000, 0.0000,  
0.0000


 172.8116,


161.1659, 74.9608


 212.0766,  
199.3943, 99.1294


 22.3329, 18.4213,  
2.3786


 22.3329, 18.4213,  
2.3786


 22.3330, 18.4218,  
2.3787

 23.1896, 19.9667,  
3.1830

 24.2054, 21.6810,  
4.4997

 25.4187, 23.5831,  
6.5211

 26.8480, 25.6826,  
9.3375

 28.5091, 27.9883,  
13.0252

■ 30.4163, 30.5082,  
17.6517

■ 32.5824, 33.2496,  
23.2776

■ 35.0191, 36.2195,  
29.9584

■ 37.7375, 39.4242,  
37.7457

# Harmonies

## Analogous

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



28.3975, 18.4213, 5.9006



22.3329, 18.4213, 2.3786



16.0510, 18.4213, 1.8748

# Triad

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



22.3329, 18.4213, 2.3786



8.3579, 18.4213, 24.6685



25.5307, 18.4213, 59.5548

# Complementary

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



22.3329, 18.4213, 2.3786



10.1867, 7.9928, 41.5631

# 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.



19.0524, 18.4213, 74.1398



22.3329, 18.4213, 2.3786



9.8345, 18.4213, 47.7145

# Square

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



22.3329, 18.4213, 2.3786



8.8481, 18.4213, 9.8425



13.4350, 18.4213, 68.8793



30.5193, 18.4213, 35.6432



# Rectangle

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



22.3329, 18.4213, 2.3786



12.6977, 18.4213, 2.6794



13.4350, 18.4213, 68.8793



23.4036, 18.4213, 66.1908

# Sweetspot

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



22.3333, 18.4223, 2.3789



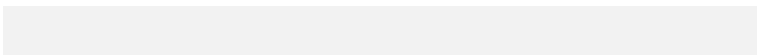
58.1400, 59.2830, 41.1180



18.9780, 9.6336, 7.6669



12.5555, 12.7165, 8.1729



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832



# Same Dimension

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



22.3333, 18.4223, 2.3789



39.7773, 32.5517, 4.1866



30.5025, 38.4815, 5.8202



8.3746, 8.7540, 8.4617



16.0554, 13.3163, 1.7241



0.4993, 0.4757, 0.0655



# Inverse Universe

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



10.1867, 7.9928, 41.5631



18.0378, 13.9024, 74.3696



7.8850, 3.1711, 40.7537



7.8468, 8.2930, 10.1398



7.3532, 5.8402, 29.7842



0.2595, 0.2723, 0.8469



# Previews

## White Background



This preview shows how the XYZ color 22.3329, 18.4213, 2.3786 looks on a white 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



# Black Background



This preview shows how the XYZ color 22.3329, 18.4213, 2.3786 looks on a black 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

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

**XYZ 22.3329, 18.4213, 2.3786**

## **Background**



This preview shows how black text looks on a background with the XYZ color 22.3329, 18.4213, 2.3786.



This preview shows how white text looks on a background with the XYZ color 22.3329, 18.4213,



# 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

22.3329, 18.4213, 2.3786

### Protanopia

16.7874, 18.6155, 3.1238

### Deuteranopia

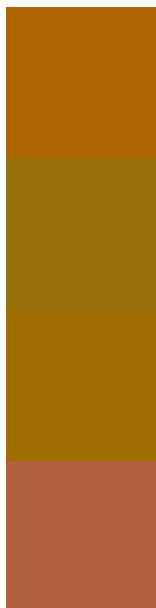
18.6676, 18.3896, 2.5657



## Tritanopia

24.9421, 18.5287, 14.5737

# Trichromacy



## Original Color

22.3329, 18.4213, 2.3786

## Protanomaly

18.5321, 18.3140, 2.8167

## Deuteranomaly

19.9658, 18.4109, 2.5013

## Tritanomaly

23.5602, 18.3845, 7.1573

# Monochromacy



## Original Color

22.3329, 18.4213, 2.3786

## Achromatopsia

15.4009, 16.2029, 17.6450

## Achromatomaly

16.4916, 16.3310, 8.2442

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.3329, 18.4213, 2.3786 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(175, 101, 0)` looks like.

```
.text, #text, p{  
    color:rgb(175, 101, 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(175, 101, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(175, 101, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 22.3329, 18.4213, 2.3786 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(175, 101, 0) }
```



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

```
.border{ border-color:rgb(175, 101, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(175, 101, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(175, 101, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(175, 101, 0);  
box-shadow:4px 4px 4px 4px rgb(175, 101,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 22.3329, 18.4213, 2.3786 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(175, 101, 0) }
```

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

```
.background{ background-color: rgb(175,  
101, 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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