

# Converting Colors

XYZ(20.9370, 18.1023, 0.0000)

Have a look what the booklet for  
XYZ(20.9370, 18.1023, 0.0000)  
contains.

<b>XYZ(21.4278, 18.2465, 2.3926)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(21.4278, 18.2465,  
2.3926)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AA6700
RGB	170, 103, 0
RGB Percent	67%, 40%, 0%
CMY	0.3333, 0.5961, 1.0000
CMYK	0.00, 0.39, 1.00, 0.33
HSL	36°, 100%, 33%
HSV	36°, 100%, 67%
XYZ	21.4278, 18.2465, 2.3926
YIQ	111.2910, 72.9950, -17.8290

# Conversions

## Conversions Part 2

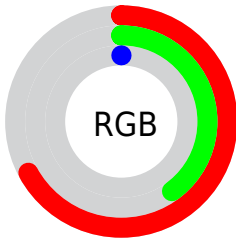
Format	Color
<a href="#">RYB</a>	<a href="#">111, 170, 0</a>
Decimal	<a href="#">11167488</a>
CIELab	<a href="#">49.79, 20.72, 57.42</a>
CIElCh	<a href="#">50, 61.042, 70.161</a>
Yxy	<a href="#">18.2465, 0.5094, 0.4337</a>
Android (android.graphics.Color)	<a href="#">4289357568</a> ( <a href="#">0xFFAA6700</a> )
YUV	<a href="#">111.2910, -54.8665, 51.4878</a>
Hunter-Lab	<a href="#">42.7159, 14.7890, 26.5802</a>

# Details

The XYZ color **21.4278, 18.2465, 2.3926** is a dark color, and the websafe version is hex **996600**. A complement of this color would be **9.2630, 6.9168, 38.8768**, and the grayscale version is **15.3345, 16.1331, 17.5690**.

A 20% lighter version of the original color is **45.4078, 40.4590, 10.1187**, and **8.0963, 6.2731, 0.7841** is the 20% darker color. If you saturate the color by 10%, you get **21.4279, 18.2469, 2.3926**, and if you desaturate by 10%, it is **22.2228, 19.6747, 3.1569**.

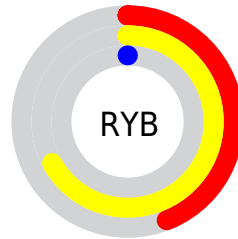
# Distribution



Red (67%)

Green (40%)

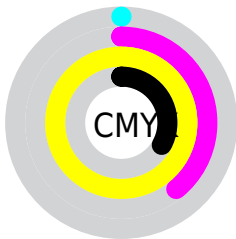
Blue (0%)



Red (44%)

Yellow (67%)

Blue (0%)

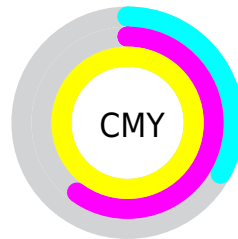


Cyan (0%)

Magenta (39%)

Yellow (100%)

Black (33%)



Cyan (33%)

Magenta (60%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 21.4278, 18.2465, 2.3926 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 21.4278, 18.2465, 2.3926 by changing the saturation by 10% instead.



■ 21.4278, 18.2465,  
2.3926

■ 21.4278, 18.2465,  
2.3926

252.2323,  
242.2568, 128.2027

■ 13.5513, 11.1271,  
0.7824

■ 45.2844, 40.4569,  
10.0888

■ 7.8889, 6.1524,  
0.0000

■ 61.9951, 56.3167,  
17.0230

■ 4.0751, 2.9380,  
0.0000

■ 82.3814, 75.8588,  
26.5727

■ 1.7447, 1.0994,  
0.0000

■ 106.8085, 99.4675,  
39.1565


■ 0.4840, 0.0000,  
0.0000


■ 135.6418,  
127.5273, 55.1928


■ 0.0000, 0.0000,  
0.0000


■ 169.2466,


160.4225, 75.1003


 207.9883,  
198.5375, 99.2974


 21.4278, 18.2465,  
2.3926


 21.4278, 18.2465,  
2.3926


 21.4279, 18.2469,  
2.3926

 22.2228, 19.6747,  
3.1569

 23.1584, 21.2457,  
4.3942

 24.2710, 22.9768,  
6.2885

 25.5776, 24.8765,  
8.9235

 27.0926, 26.9525,  
12.3702

■ 28.8291, 29.2114,  
16.6911

■ 30.7985, 31.6598,  
21.9426

■ 33.0117, 34.3035,  
28.1764

■ 35.4787, 37.1481,  
35.4403

# Harmonies

## Analogous

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



27.3863, 18.2465, 5.5308



21.4278, 18.2465, 2.3926



15.4412, 18.2465, 2.0670

# Triad

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



21.4278, 18.2465, 2.3926



8.4902, 18.2465, 26.0793



25.6142, 18.2465, 55.8399

# Complementary

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



21.4278, 18.2465, 2.3926



9.2630, 6.9168, 38.8768

# 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.



19.3943, 18.2465, 71.1102



21.4278, 18.2465, 2.3926



10.1149, 18.2465, 48.5608

# Square

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



21.4278, 18.2465, 2.3926



8.7976, 18.2465, 10.8494



13.8130, 18.2465, 67.8832



30.1536, 18.2465, 32.8610



# Rectangle

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



21.4278, 18.2465, 2.3926



12.3027, 18.2465, 3.0379



13.8130, 18.2465, 67.8832



23.5997, 18.2465, 62.5004

# Sweetspot

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



21.4282, 18.2475, 2.3929



55.6739, 57.1912, 39.2451



17.6210, 8.9635, 6.2709



12.0796, 12.3404, 7.8434



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.



21.4282, 18.2475, 2.3929



38.6613, 32.6719, 4.2686



27.5116, 35.5216, 5.4065



7.8950, 8.2700, 7.9694



15.8182, 13.5336, 1.7785



0.4326, 0.4247, 0.0592



# Inverse Universe

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



9.2630, 6.9168, 38.8768



16.6080, 12.1524, 70.4722



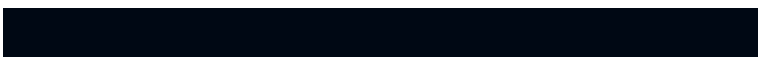
7.4870, 3.0216, 38.2185



7.3653, 7.7675, 9.5294



6.8650, 5.1902, 28.6155

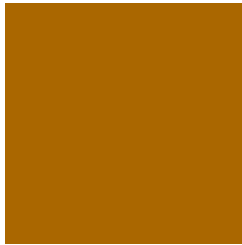


0.2171, 0.2265, 0.7129



# Previews

## White Background



This preview shows how the XYZ color 21.4278, 18.2465, 2.3926 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

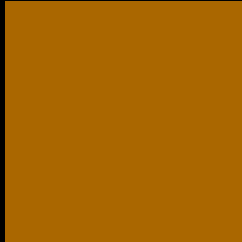
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 21.4278, 18.2465, 2.3926 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 21.4278, 18.2465, 2.3926**

## **Background**



This preview shows how black text looks on a background with the XYZ color 21.4278, 18.2465, 2.3926.



This preview shows how white text looks on a background with the XYZ color 21.4278, 18.2465,



# 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

21.4278, 18.2465, 2.3926

### Protanopia

16.5010, 18.2910, 3.0416

### Deuteranopia

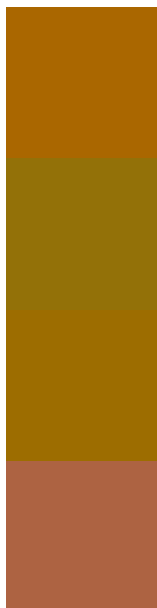
18.4828, 18.2943, 2.5570



## Tritanopia

24.0866, 18.3437, 15.1031

# Trichromacy



## Original Color

21.4278, 18.2465, 2.3926

## Protanomaly

17.9816, 18.0308, 2.7623

## Deuteranomaly

19.3733, 18.1054, 2.4736

## Tritanomaly

22.6788, 18.2013, 7.4721

# Monochromacy



## Original Color

21.4278, 18.2465, 2.3926

## Achromatopsia

15.1092, 15.8961, 17.3108

## Achromatomaly

16.0156, 16.0856, 8.2220

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 21.4278, 18.2465, 2.3926 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(170, 103, 0)` looks like.

```
.text, #text, p{  
    color:rgb(170, 103, 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(170, 103, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 103, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 21.4278, 18.2465, 2.3926 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(170, 103, 0) }
```



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

```
.border{ border-color:rgb(170, 103, 0) }
```

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

Here you see how a box with a 4 pixel rgb(170, 103, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(170, 103, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(170, 103, 0);  
box-shadow:4px 4px 4px 4px rgb(170, 103,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 21.4278, 18.2465, 2.3926 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 103, 0) }
```

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

```
.background{ background-color: rgb(170,  
103, 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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