

# Converting Colors

XYZ(21.1533, 20.0870, 0.5852)

Have a look what the booklet for  
XYZ(21.1533, 20.0870, 0.5852)  
contains.

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# Color

**XYZ(21.6478, 20.2608,  
2.7698)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A57300
RGB	165, 115, 0
RGB Percent	65%, 45%, 0%
CMY	0.3529, 0.5490, 1.0000
CMYK	0.00, 0.30, 1.00, 0.35
HSL	42°, 100%, 32%
HSV	42°, 100%, 65%
XYZ	21.6478, 20.2608, 2.7698
YIQ	116.8400, 66.7150, -25.1650

# Conversions

## Conversions Part 2

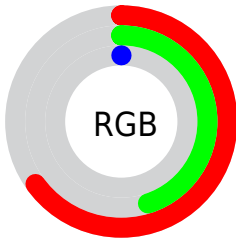
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	72, 165, 0
Decimal	10842880
CIE Lab	52.13, 11.68, 58.65
CIE LCh	52, 59.799, 78.736
Yxy	20.2608, 0.4845, 0.4535
Android (android.graphics.Color)	4289032960 (0xFFA57300)
YUV	116.8400, -57.6021, 42.2363
Hunter-Lab	45.0120, 7.0757, 27.8600

# Details

The XYZ color **21.6478, 20.2608, 2.7698** is a dark color, and the websafe version is hex **996600**. A complement of this color would be **7.9323, 4.9981, 36.1437**, and the grayscale version is **17.0180, 17.9043, 19.4977**.

A 20% lighter version of the original color is **45.8242, 44.0266, 11.0838**, and **8.1915, 7.2025, 0.9585** is the 20% darker color. If you saturate the color by 10%, you get **21.6479, 20.2612, 2.7698**, and if you desaturate by 10%, it is **22.3313, 21.4722, 3.4779**.

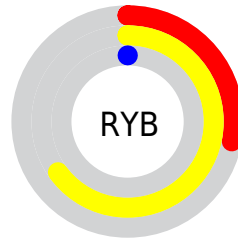
# Distribution



Red (65%)

Green (45%)

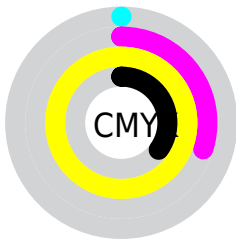
Blue (0%)



Red (28%)

Yellow (65%)

Blue (0%)

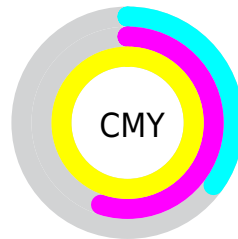


Cyan (0%)

Magenta (30%)

Yellow (100%)

Black (35%)



Cyan (35%)

Magenta (55%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 21.6478, 20.2608, 2.7698 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 21.6478, 20.2608, 2.7698 by changing the saturation by 10% instead.



■ 21.6478, 20.2608,  
2.7698

■ 21.6478, 20.2608,  
2.7698

253.3685,  
253.3235, 133.3724

■ 13.7135, 12.5848,  
0.9783

■ 45.6464, 43.8540,  
11.0549

■ 8.0020, 7.1432,  
0.0000

■ 62.4414, 60.5400,  
18.3856

■ 4.1481, 3.5518,  
0.0000

■ 82.9207, 80.9980,  
28.3999

■ 1.7862, 1.4262,  
0.0000

■ 107.4496,  
105.6125, 41.5162


■ 0.5094, 0.2359,  
0.0000


■ 136.3934,  
134.7680, 58.1530


■ 0.0000, 0.0000,  
0.0000


■ 170.1176,


168.8487, 78.7290


 208.9876,  
208.2391, 103.6626


 21.6478, 20.2608,  
2.7698


 21.6478, 20.2608,  
2.7698


 21.6479, 20.2612,  
2.7698

 22.3313, 21.4722,  
3.4779

 23.1257, 22.7774,  
4.6171

 24.0653, 24.1916,  
6.3634

 25.1650, 25.7217,  
8.7940

 26.4379, 27.3734,  
11.9746

■ 27.8953, 29.1520,  
15.9631

■ 29.5476, 31.0624,  
20.8117

■ 31.4041, 33.1090,  
26.5682

■ 33.4737, 35.2959,  
33.2768

# Harmonies

## Analogous

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



28.1046, 20.2608, 5.1904



21.6478, 20.2608, 2.7698



15.7204, 20.2608, 3.0646

# Triad

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



21.6478, 20.2608, 2.7698



10.1269, 20.2608, 34.7482



29.5225, 20.2608, 52.5763

# Complementary

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



21.6478, 20.2608, 2.7698



7.9323, 4.9981, 36.1437

# 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.



23.2884, 20.2608, 71.8196



21.6478, 20.2608, 2.7698



12.4939, 20.2608, 58.3119

# Square

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



21.6478, 20.2608, 2.7698



9.8706, 20.2608, 16.1123



17.0496, 20.2608, 74.3446



33.2520, 20.2608, 29.3177



# Rectangle

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



21.6478, 20.2608, 2.7698



12.7943, 20.2608, 4.8347



17.0496, 20.2608, 74.3446



27.5961, 20.2608, 60.1580

# Sweetspot

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



21.6483, 20.2618, 2.7702



52.7444, 55.4349, 36.7489



16.1426, 8.2497, 4.0206



11.2654, 11.8158, 7.2432



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.



21.6483, 20.2618, 2.7702



38.5840, 35.9143, 4.8986



23.4068, 32.0404, 4.9510



7.4674, 7.8732, 7.5062



16.4223, 15.4186, 2.1105



0.3835, 0.4009, 0.0572



# Inverse Universe

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



7.9323, 4.9981, 36.1437



14.0481, 8.6351, 64.6786



7.3345, 2.9967, 35.7889



6.8673, 7.1937, 8.9296



6.0402, 3.8597, 27.3564

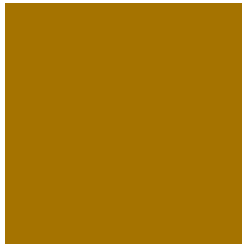


0.1667, 0.1606, 0.5881



# Previews

## White Background



This preview shows how the XYZ color 21.6478, 20.2608, 2.7698 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

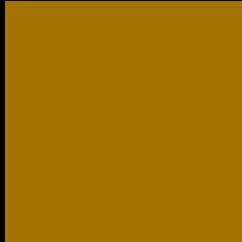
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 21.6478, 20.2608, 2.7698 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 21.6478, 20.2608, 2.7698**

## **Background**



This preview shows how black text looks on a background with the XYZ color 21.6478, 20.2608, 2.7698.



This preview shows how white text looks on a background with the XYZ color 21.6478, 20.2608,

2.7698.

# 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

21.6478, 20.2608, 2.7698

### Protanopia

18.3729, 20.3519, 3.2471

### Deuteranopia

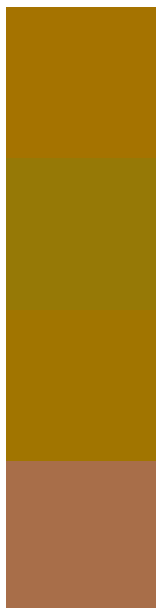
20.5790, 20.2260, 2.8194



## Tritanopia

24.9298, 20.2992, 18.8239

# Trichromacy



## Original Color

21.6478, 20.2608, 2.7698

## Protanomaly

19.4479, 20.1719, 3.0409

## Deuteranomaly

21.0592, 20.2996, 2.8083

## Tritanomaly

22.9270, 19.9577, 8.9472

# Monochromacy



## Original Color

21.6478, 20.2608, 2.7698

## Achromatopsia

16.9083, 17.7888, 19.3720

## Achromatomaly

17.3129, 18.0535, 9.0508

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 21.6478, 20.2608, 2.7698 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(165, 115, 0)` looks like.

```
.text, #text, p{  
    color:rgb(165, 115, 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(165, 115, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(165, 115, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 21.6478, 20.2608, 2.7698 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(165, 115, 0) }
```



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

```
.border{ border-color:rgb(165, 115, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(165, 115, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(165, 115, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(165, 115, 0);  
box-shadow:4px 4px 4px 4px rgb(165, 115,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 21.6478, 20.2608, 2.7698 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(165, 115, 0) }
```

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

```
.background{ background-color: rgb(165,  
115, 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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