

# Converting Colors

XYZ(20.4956, 18.9450, 5.2658)

Have a look what the booklet for  
XYZ(20.4956, 18.9450, 5.2658)  
contains.

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# Color

**XYZ(20.4956, 18.9450,  
5.2658)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9F6F2F
RGB	159, 111, 47
RGB Percent	62%, 44%, 18%
CMY	0.3765, 0.5647, 0.8157
CMYK	0.00, 0.30, 0.70, 0.38
HSL	34°, 54%, 40%
HSV	34°, 70%, 62%
XYZ	20.4956, 18.9450, 5.2658
YIQ	118.0560, 49.1520, -9.7280

# Conversions

## Conversions Part 2

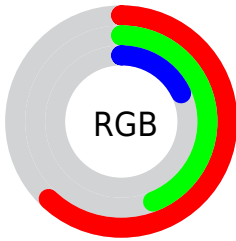
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	131, 159, 47
Decimal	10448687
CIE Lab	50.62, 12.66, 42.00
CIE LCh	51, 43.868, 73.220
Yxy	18.9450, 0.4584, 0.4238
Android (android.graphics.Color)	4288638767 (0xFF9F6F2F)
YUV	118.0560, -35.0306, 35.9079
Hunter-Lab	43.5259, 7.8824, 23.2951

# Details

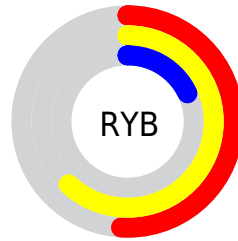
The XYZ color **20.4956, 18.9450, 5.2658** is a dark color, and the websafe version is hex **996633**. A complement of this color would be **11.5223, 11.2914, 34.3729**, and the grayscale version is **17.3334, 18.2361, 19.8591**.

A 20% lighter version of the original color is **43.8238, 41.7906, 16.8230**, and **7.3710, 6.4386, 0.8543** is the 20% darker color. If you saturate the color by 10%, you get **19.5162, 17.4094, 3.6351**, and if you desaturate by 10%, it is **21.6495, 20.6427, 7.5316**.

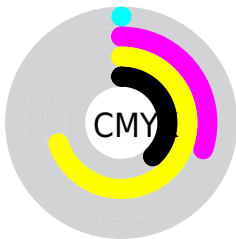
# Distribution



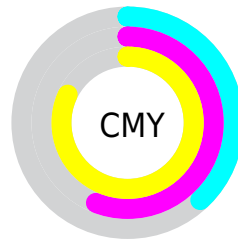
- Red (62%)
- Green (44%)
- Blue (18%)



- Red (51%)
- Yellow (62%)
- Blue (18%)



- Cyan (0%)
- Magenta (30%)
- Yellow (70%)
- Black (38%)



- Cyan (38%)
- Magenta (56%)
- Yellow (82%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 20.4956, 18.9450, 5.2658 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 20.4956, 18.9450, 5.2658 by changing the saturation by 10% instead.



■ 20.4956, 18.9450,  
5.2658

■ 20.4956, 18.9450,  
5.2658

247.3684,  
246.1450, 161.3988

■ 12.8662, 11.6305,  
2.3426

■ 43.7442, 41.6411,  
16.8374

■ 7.4128, 6.4926,  
0.7549

■ 60.0940, 57.7916,  
26.3228

■ 3.7702, 3.1469,  
0.0000

■ 80.0814, 77.6562,  
38.8328

■ 1.5730, 1.2089,  
0.0000

■ 104.0716,  
101.6193, 54.7857

■ 0.3747, 0.0689,  
0.0000

■ 132.4301,  
130.0654, 74.6003

■ 0.0000, 0.0000,  
0.0000

■ 165.5221,

163.3787, 98.6950

203.7131,  
201.9438, 127.4883

■ 20.4956, 18.9450,  
5.2658

■ 20.4956, 18.9450,  
5.2658

■ 19.5162, 17.4094,  
3.6351

■ 21.6495, 20.6427,  
7.5316

■ 18.6953, 16.0251,  
2.5673

■ 22.9892, 22.5067,  
10.4919

■ 18.0273, 14.8295,  
1.9122

■ 24.5263, 24.5442,  
14.2003

■ 26.2711, 26.7613,  
18.7049

■ 28.2329, 29.1633,  
24.0498

■ 30.4205, 31.7557,  
30.2756

■ 32.8422, 34.5433,  
37.4205

■ 35.5057, 37.5309,  
45.5202

■ 38.4184, 40.7231,  
54.6087

# Harmonies

## Analogous

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



24.7144, 18.9450, 8.3073



20.4956, 18.9450, 5.2658



16.1846, 18.9450, 5.1144

# Triad

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



20.4956, 18.9450, 5.2658



11.1087, 18.9450, 26.5185



24.2695, 18.9450, 43.0878

# Complementary

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



20.4956, 18.9450, 5.2658



11.5223, 11.2914, 34.3729

# 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.



19.9605, 18.9450, 53.2485



20.4956, 18.9450, 5.2658



12.6377, 18.9450, 41.4137

# Square

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



20.4956, 18.9450, 5.2658



11.2051, 18.9450, 14.5296



15.7278, 18.9450, 52.5366



27.1192, 18.9450, 28.2306



# Rectangle

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



20.4956, 18.9450, 5.2658



13.8535, 18.9450, 6.5008



15.7278, 18.9450, 52.5366



22.9165, 18.9450, 47.3881

# Sweetspot

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



20.4960, 18.9459, 5.2662



50.2082, 51.8015, 42.0848



17.4045, 10.2400, 12.0134



11.1080, 11.4222, 8.9048



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.



20.4960, 18.9459, 5.2662



34.0120, 29.6162, 5.2190



25.7729, 31.6319, 7.4367



6.9318, 7.2437, 7.0185



14.2807, 11.7970, 1.5244



0.2968, 0.2939, 0.0411



# Inverse Universe

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



11.5223, 11.2914, 34.3729



16.9488, 15.1275, 60.7700



8.8211, 5.3336, 33.3653



6.5068, 6.8793, 8.3916



6.6220, 5.3355, 26.5881



0.1595, 0.1777, 0.4891



# Previews

## White Background



This preview shows how the XYZ color 20.4956, 18.9450, 5.2658 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

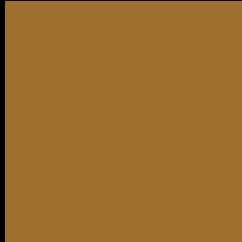
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 20.4956, 18.9450, 5.2658 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 20.4956, 18.9450, 5.2658**

## **Background**



This preview shows how black text looks on a background with the XYZ color 20.4956, 18.9450, 5.2658.



This preview shows how white text looks on a background with the XYZ color 20.4956, 18.9450,



# 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

20.4956, 18.9450, 5.2658

### Protanopia

17.4048, 19.0559, 5.7784

### Deuteranopia

19.3864, 19.0380, 5.2377



## Tritanopia

22.9792, 18.8570, 17.7579

# Trichromacy



## Original Color

20.4956, 18.9450, 5.2658

## Protanomaly

18.4173, 18.8736, 5.5780

## Deuteranomaly

19.8369, 19.1019, 5.2263

## Tritanomaly

21.9194, 18.9014, 11.7256

# Monochromacy



## Original Color

20.4956, 18.9450, 5.2658

## Achromatopsia

17.2197, 18.1164, 19.7288

## Achromatomaly

17.7354, 18.0207, 12.6688

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 20.4956, 18.9450, 5.2658 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(159, 111, 47)` looks like.

```
.text, #text, p{  
    color:rgb(159, 111, 47)  
}
```

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(159, 111, 47) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(159, 111, 47) }
```

## Border

The CSS property to change the border of an element to XYZ 20.4956, 18.9450, 5.2658 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(159, 111, 47) }
```



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

```
.border{ border-color:rgb(159, 111, 47) }
```

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

Here you see how a box with a 4 pixel rgb(159, 111, 47) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(159, 111, 47); -webkit-box-  
shadow:4px 4px 4px 4px rgb(159, 111, 47);  
box-shadow:4px 4px 4px 4px rgb(159, 111,  
47) }
```

# Background

The CSS property to change the background color of an element to XYZ 20.4956, 18.9450, 5.2658 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(159, 111, 47) }
```

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

```
.background{ background-color: rgb(159,  
111, 47) }
```

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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