

# Converting Colors

XYZ(22.7416, 21.3749, 20.3345)

Have a look what the booklet for  
XYZ(22.7416, 21.3749, 20.3345)  
contains.

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# Color

**XYZ(22.6239, 21.2489,  
20.3618)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	967877
RGB	150, 120, 119
RGB Percent	59%, 47%, 47%
CMY	0.4118, 0.5294, 0.5333
CMYK	0.00, 0.20, 0.21, 0.41
HSL	2°, 13%, 53%
HSV	2°, 21%, 59%
XYZ	22.6239, 21.2489, 20.3618
YIQ	128.8560, 18.2010, 6.0490

# Conversions

## Conversions Part 2

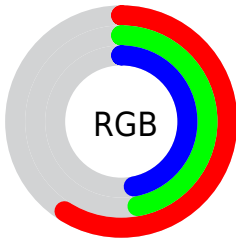
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	150, 120, 119
Decimal	9861239
CIE <sub>Lab</sub>	53.22, 11.50, 4.98
CIE <sub>LCh</sub>	53, 12.534, 23.387
Yxy	21.2489, 0.3522, 0.3308
Android (android.graphics.Color)	4288051319 (0xFF967877)
YUV	128.8560, -4.8590, 18.5433
Hunter-Lab	46.0965, 6.9378, 6.0779

# Details

The XYZ color **22.6239, 21.2489, 20.3618** is a dark color, and the websafe version is hex **996666**. A complement of this color would be **23.8599, 27.6180, 32.9275**, and the grayscale version is **20.8283, 21.9130, 23.8633**.

A 20% lighter version of the original color is **47.2800, 45.4245, 44.8039**, and **8.5362, 7.6141, 6.9810** is the 20% darker color. If you saturate the color by 10%, you get **20.1780, 17.6867, 15.4473**, and if you desaturate by 10%, it is **25.4778, 25.3992, 26.1143**.

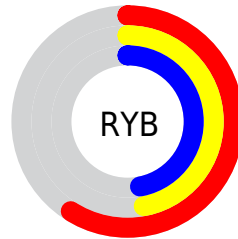
# Distribution



Red (59%)

Green (47%)

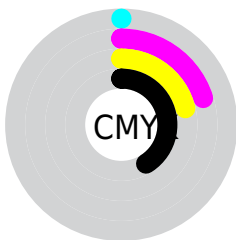
Blue (47%)



Red (59%)

Yellow (47%)

Blue (47%)

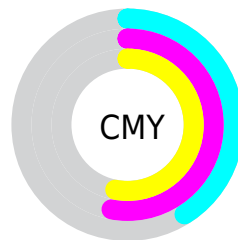


Cyan (0%)

Magenta (20%)

Yellow (21%)

Black (41%)



Cyan (41%)

Magenta (53%)

Yellow (53%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 22.6239, 21.2489, 20.3618 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 22.6239, 21.2489, 20.3618 by changing the saturation by 10% instead.



■ 22.6239, 21.2489,  
20.3618

■ 22.6239, 21.2489,  
20.3618

258.3589,  
258.5983, 266.5358

■ 14.4352, 13.3061,  
12.4716

■ 47.2462, 45.5014,  
44.8899

■ 8.5077, 7.6396,  
6.9393

■ 64.4106, 62.5799,  
62.3648

■ 4.4760, 3.8652,  
3.3463

■ 85.2976, 83.4723,  
83.8718

■ 1.9748, 1.5985,  
1.2741

110.2725,  
108.5632, 109.8293

■ 0.6197, 0.3566,  
0.0404

139.7007,  
138.2368, 140.6560

■ 0.0000, 0.0000,  
0.0000

173.9477,

172.8776, 176.7702

213.3786,  
212.8700, 218.5907

■ 22.6239, 21.2489,  
20.3618

■ 22.6239, 21.2489,  
20.3618

■ 20.1780, 17.6867,  
15.4473

■ 25.4778, 25.3992,  
26.1143

■ 18.1198, 14.6832,  
11.3305

■ 28.7553, 30.1594,  
32.7399

■ 16.4300, 12.2110,  
7.9697


■ 32.4733, 35.5538,  
40.2735


■ 15.0868, 10.2391,  
5.3190


■ 36.6473, 41.6045,  
48.7473


■ 14.0662, 8.7335,  
3.3273


■ 41.2921, 48.3324,  
58.1923


 13.3410, 7.6558,  
1.9370


 46.4216, 55.7577,  
68.6379

 12.8798, 6.9615,  
1.0804

 52.0493, 63.8997,  
80.1123

 12.6304, 6.5894,  
0.6062

 58.1882, 72.7768,  
92.6426

 64.8508, 82.4069,  
106.2549

# Harmonies

## Analogous

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



22.8318, 21.2489, 23.9861



22.6239, 21.2489, 20.3618



21.7528, 21.2489, 17.7645

# Triad

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



22.6239, 21.2489, 20.3618



18.2215, 21.2489, 19.0555



19.9047, 21.2489, 31.1593

# Complementary

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



22.6239, 21.2489, 20.3618



23.8599, 27.6180, 32.9275

# 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.



18.7161, 21.2489, 29.4949



22.6239, 21.2489, 20.3618



17.7721, 21.2489, 22.3071

# Square

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



22.6239, 21.2489, 20.3618



19.2028, 21.2489, 17.0699



17.9491, 21.2489, 26.1523



21.2237, 21.2489, 30.4929



# Rectangle

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



22.6239, 21.2489, 20.3618



20.9329, 21.2489, 16.8305



17.9491, 21.2489, 26.1523



19.4774, 21.2489, 30.8484

# Sweetspot

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



22.6245, 21.2499, 20.3622



47.4986, 48.5083, 51.2088



24.6382, 21.8633, 31.5581



10.4542, 10.6453, 11.2027



71.1368, 74.8414, 81.5023



11.3376, 11.9280, 12.9896



# Same Dimension

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



22.6245, 21.2499, 20.3622



37.7556, 34.3399, 31.5681



24.5739, 25.1487, 21.0120



5.8150, 5.8437, 6.0619



10.4800, 5.4744, 0.5043



0.1313, 0.0730, 0.0072



# Inverse Universe

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



23.8599, 27.6180, 32.9275



40.3547, 47.7390, 58.0089



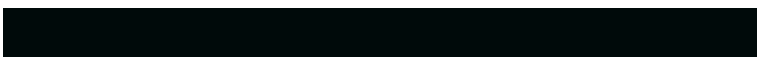
21.6358, 23.1698, 32.1861



5.9482, 6.5304, 7.4167



12.9868, 18.6684, 26.8499



0.1630, 0.2366, 0.3300



# Previews

## White Background



This preview shows how the XYZ color 22.6239, 21.2489, 20.3618 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

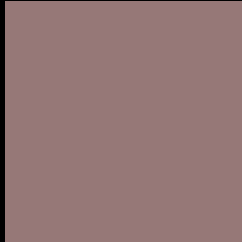
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 22.6239, 21.2489, 20.3618 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 22.6239, 21.2489, 20.3618**

## **Background**



This preview shows how black text looks on a background with the XYZ color 22.6239, 21.2489, 20.3618.



This preview shows how white text looks on a background with the XYZ color 22.6239, 21.2489,



# 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

22.6239, 21.2489, 20.3618

### Protanopia

20.5246, 21.4341, 21.7943

### Deuteranopia

21.6807, 21.3136, 20.1108



## Tritanopia

23.2556, 21.3315, 23.3138

# Trichromacy



## Original Color

22.6239, 21.2489, 20.3618

## Protanomaly

21.2017, 21.2237, 21.3915

## Deuteranomaly

22.0836, 21.3381, 20.0943

## Tritanomaly

23.0610, 21.2536, 22.2890

# Monochromacy



## Original Color

22.6239, 21.2489, 20.3618

## Achromatopsia

20.8660, 21.9526, 23.9064

## Achromatomaly

21.4791, 21.7207, 22.4625

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.6239, 21.2489, 20.3618 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(150, 120, 119)` looks like.

```
.text, #text, p{  
    color:rgb(150, 120, 119)  
}
```

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(150, 120, 119) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(150, 120, 119) }
```

## Border

The CSS property to change the border of an element to XYZ 22.6239, 21.2489, 20.3618 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(150, 120, 119) }
```



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

```
.border{ border-color:rgb(150, 120, 119) }
```

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

Here you see how a box with a 4 pixel `rgb(150, 120, 119)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(150, 120, 119); -webkit-box-  
shadow:4px 4px 4px 4px rgb(150, 120, 119);  
box-shadow:4px 4px 4px 4px rgb(150, 120,  
119) }
```

# Background

The CSS property to change the background color of an element to XYZ 22.6239, 21.2489, 20.3618 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(150, 120, 119) }
```

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

```
.background{ background-color: rgb(150,  
120, 119) }
```

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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