

# Converting Colors

XYZ(22.9339, 21.6868, 18.3067)

Have a look what the booklet for  
XYZ(22.9339, 21.6868, 18.3067)  
contains.

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# Color

**XYZ(22.8989, 21.6169,  
18.2948)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	997970
RGB	153, 121, 112
RGB Percent	60%, 47%, 44%
CMY	0.4000, 0.5255, 0.5608
CMYK	0.00, 0.21, 0.27, 0.40
HSL	13°, 17%, 52%
HSV	13°, 27%, 60%
XYZ	22.8989, 21.6169, 18.2948
YIQ	129.5420, 21.9610, 3.9850

# Conversions

## Conversions Part 2

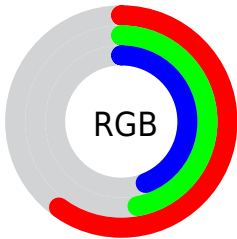
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	153, 124, 112
Decimal	10058096
CIE <sub>Lab</sub>	53.62, 11.04, 9.67
CIE <sub>LCh</sub>	54, 14.678, 41.207
Yxy	21.6169, 0.3646, 0.3442
Android (android.graphics.Color)	4288248176 (0xFF997970)
YUV	129.5420, -8.6482, 20.5727
Hunter-Lab	46.4940, 6.5492, 9.2159

# Details

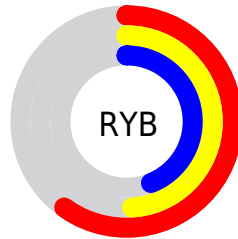
The XYZ color **22.8989, 21.6169, 18.2948** is a dark color, and the websafe version is hex **996666**. A complement of this color would be **22.4049, 25.6905, 33.9151**, and the grayscale version is **21.0811, 22.1789, 24.1528**.

A 20% lighter version of the original color is **47.6568, 45.9774, 41.4847**, and **8.6096, 7.7716, 5.8968** is the 20% darker color. If you saturate the color by 10%, you get **20.7561, 18.5807, 13.7287**, and if you desaturate by 10%, it is **25.3673, 25.0723, 23.6841**.

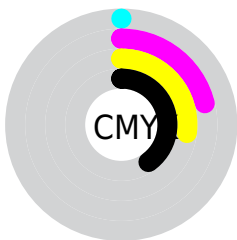
# Distribution



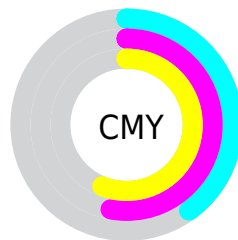
- Red (60%)
- Green (47%)
- Blue (44%)



- Red (60%)
- Yellow (49%)
- Blue (44%)



- Cyan (0%)
- Magenta (21%)
- Yellow (27%)
- Black (40%)




- Cyan (40%)
- Magenta (53%)
- Yellow (56%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 22.8989, 21.6169, 18.2948 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 22.8989, 21.6169, 18.2948 by changing the saturation by 10% instead.





 22.8989, 21.6169,  
18.2948


 22.8989, 21.6169,  
18.2948


259.7503,  
260.5391, 254.8192


 14.6392, 13.5757,  
10.9902


 47.6951, 46.1120,  
41.3597


 8.6512, 7.8261,  
5.9462


 64.9624, 63.3347,  
57.9571

 4.5697, 3.9839,  
2.7441

 85.9628, 84.3866,  
78.4893

 2.0292, 1.6646,  
0.9655

 111.0618,  
109.6522, 103.3746

 0.6503, 0.4006,  
0.0000

140.6246,  
139.5158, 133.0317

 0.0000, 0.0000,  
0.0000

175.0168,

174.3619, 167.8792

214.6036,  
214.5749, 208.3355

■ 22.8989, 21.6169,  
18.2948

■ 22.8989, 21.6169,  
18.2948

■ 20.7561, 18.5807,  
13.7287

■ 25.3673, 25.0723,  
23.6841

■ 18.9233, 15.9446,  
9.9439

■ 28.1725, 28.9590,  
29.9332

■ 17.3862, 13.6927,  
6.8965

■ 31.3274, 33.2923,  
37.0781

■ 16.1286, 11.8066,  
4.5378

■ 34.8436, 38.0860,  
45.1521

■ 15.1327, 10.2665,  
2.8134

■ 38.7323, 43.3530,  
54.1873

■ 14.3785, 9.0506,  
1.6603

■ 43.0040, 49.1061,  
64.2137

■ 13.8386, 8.1326,  
0.9811

■ 47.6690, 55.3572,  
75.2603

■ 13.6975, 7.8935,  
0.8017

■ 52.7370, 62.1181,  
87.3550

■ 58.2176, 69.4000,  
100.5243

# Harmonies

## Analogous

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



23.6478, 21.6169, 21.8985



22.8989, 21.6169, 18.2948



21.5328, 21.6169, 16.2727

# Triad

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



22.8989, 21.6169, 18.2948



17.8222, 21.6169, 20.8637



21.1378, 21.6169, 33.0635

# Complementary

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



22.8989, 21.6169, 18.2948



22.4049, 25.6905, 33.9151

# 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.



19.5902, 21.6169, 32.6940



22.8989, 21.6169, 18.2948



17.7284, 21.6169, 25.2555

# Square

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



22.8989, 21.6169, 18.2948



18.6234, 21.6169, 17.6205



18.3605, 21.6169, 29.6959



22.5971, 21.6169, 30.6490



# Rectangle

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



22.8989, 21.6169, 18.2948



20.4828, 21.6169, 15.9170



18.3605, 21.6169, 29.6959



20.6098, 21.6169, 33.2680

# Sweetspot

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



22.8995, 21.6179, 18.2952



49.7333, 50.8681, 51.9905



23.9742, 20.3781, 29.1023



10.8196, 11.0083, 11.1173



72.9764, 76.7769, 83.6100



11.9732, 12.5967, 13.7178



# Same Dimension

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



22.8995, 21.6179, 18.2952



38.7012, 35.4520, 27.8179



25.6432, 27.1054, 19.2098



6.3134, 6.4318, 6.5145



11.3421, 6.5666, 0.6697



0.1927, 0.1445, 0.0177



# Inverse Universe

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



22.4049, 25.6905, 33.9151



37.6625, 43.9568, 60.4715



19.5918, 20.0643, 32.9774



6.2695, 6.7963, 7.9104



10.2692, 12.9350, 26.8632



0.1790, 0.2444, 0.4101



# Previews

## White Background



This preview shows how the XYZ color 22.8989, 21.6169, 18.2948 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

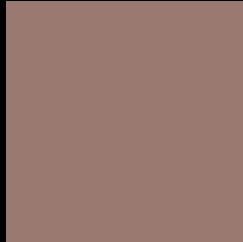
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 22.8989, 21.6169, 18.2948 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 22.8989, 21.6169, 18.2948**

## **Background**



This preview shows how black text looks on a background with the XYZ color 22.8989, 21.6169, 18.2948.



This preview shows how white text looks on a background with the XYZ color 22.8989, 21.6169,



# 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

22.8989, 21.6169, 18.2948

### Protanopia

20.7031, 21.7676, 19.6334

### Deuteranopia

22.1649, 21.7882, 18.3666



## Tritanopia

24.0107, 21.7207, 23.3491

# Trichromacy



## Original Color

22.8989, 21.6169, 18.2948

## Protanomaly

21.4126, 21.5678, 19.2541

## Deuteranomaly

22.4020, 21.7253, 18.3419

## Tritanomaly

23.5557, 21.7081, 21.3609

# Monochromacy



## Original Color

22.8989, 21.6169, 18.2948

## Achromatopsia

21.2178, 22.3228, 24.3095

## Achromatomaly

21.6458, 22.0121, 21.8468

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.8989, 21.6169, 18.2948 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(153, 121, 112)` looks like.

```
.text, #text, p{  
    color:rgb(153, 121, 112)  
}
```

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(153, 121, 112) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 121, 112) }
```

## Border

The CSS property to change the border of an element to XYZ 22.8989, 21.6169, 18.2948 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(153, 121, 112) }
```



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

```
.border{ border-color:rgb(153, 121, 112) }
```

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

Here you see how a box with a 4 pixel `rgb(153, 121, 112)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 121, 112); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 121, 112);  
box-shadow:4px 4px 4px 4px rgb(153, 121,  
112) }
```

# Background

The CSS property to change the background color of an element to XYZ 22.8989, 21.6169, 18.2948 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 121, 112) }
```

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

```
.background{ background-color: rgb(153,  
121, 112) }
```

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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