

# Converting Colors

XYZ(21.3354, 17.7146, 22.6857)

Have a look what the booklet for  
XYZ(21.3354, 17.7146, 22.6857)  
contains.

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# Color

**XYZ(21.3242, 17.7430,  
22.7229)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	966780
RGB	150, 103, 128
RGB Percent	59%, 40%, 50%
CMY	0.4118, 0.5961, 0.4980
CMYK	0.00, 0.31, 0.15, 0.41
HSL	328°, 19%, 50%
HSV	328°, 31%, 59%
XYZ	21.3242, 17.7430, 22.7229
YIQ	119.9030, 19.9870, 17.7390

# Conversions

## Conversions Part 2

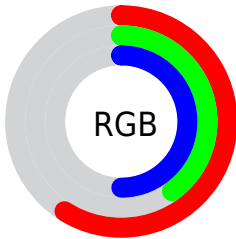
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	150, 103, 128
Decimal	9856896
CIE <sub>Lab</sub>	49.18, 22.86, -6.25
CIE <sub>LCh</sub>	49, 23.696, 344.716
Yxy	17.7430, 0.3451, 0.2871
Android (android.graphics.Color)	4288046976 (0xFF966780)
YUV	119.9030, 3.9918, 26.3951
Hunter-Lab	42.1224, 16.6501, -2.4982

# Details

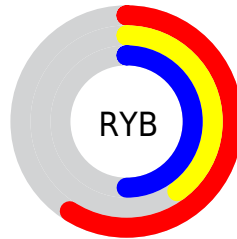
The XYZ color **21.3242, 17.7430, 22.7229** is a dark color, and the websafe version is hex **996699**. A complement of this color would be **20.2023, 26.1774, 23.3912**, and the grayscale version is **17.8052, 18.7324, 20.3996**.

A 20% lighter version of the original color is **45.2387, 39.7580, 49.0058**, and **7.8145, 5.8936, 8.1228** is the 20% darker color. If you saturate the color by 10%, you get **19.5177, 14.8441, 19.9189**, and if you desaturate by 10%, it is **23.4314, 21.1917, 25.7854**.

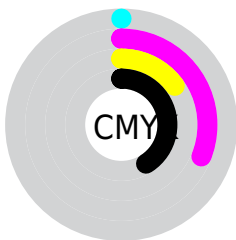
# Distribution



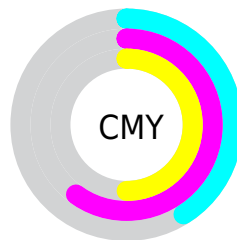
- Red (59%)
- Green (40%)
- Blue (50%)



- Red (59%)
- Yellow (40%)
- Blue (50%)



- Cyan (0%)
- Magenta (31%)
- Yellow (15%)
- Black (41%)




- Cyan (41%)
- Magenta (60%)
- Yellow (50%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 21.3242, 17.7430, 22.7229 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 21.3242, 17.7430, 22.7229 by changing the saturation by 10% instead.





 21.3242, 17.7430,  
22.7229


 21.3242, 17.7430,  
22.7229


251.6957,  
239.4185, 279.3742


 13.4750, 10.7656,  
14.1857

 45.1137, 39.5989,  
48.8553

 7.8357, 5.9095,  
8.1097


 61.7847, 55.2463,  
67.2876

 4.0409, 2.7901,  
4.0764

 82.1270, 74.5524,  
89.8553

 1.7253, 1.0232,  
1.6674

 106.5060, 97.9017,  
116.9770

 0.4720, 0.0000,  
0.3382

135.2870,  
125.6785, 149.0712

 0.0000, 0.0000,  
0.0000

168.8354,

158.2673, 186.5564

207.5165,  
196.0525, 229.8512

■ 21.3242, 17.7430,  
22.7229

■ 21.3242, 17.7430,  
22.7229

■ 19.5177, 14.8441,  
19.9189

■ 23.4314, 21.1917,  
25.7854

■ 17.9954, 12.4636,  
17.3641

■ 25.8516, 25.2145,  
29.1129

■ 16.7415, 10.5707,  
15.0501

■ 28.5984, 29.8371,  
32.7132


■ 15.7379, 9.1305,  
12.9676

■ 31.6838, 35.0831,  
36.5932


■ 14.9641, 8.1032,  
11.1062


■ 35.1196, 40.9747,  
40.7596


 14.3963, 7.4418,  
9.4544

 38.9167, 47.5330,  
45.2189

 14.0178, 7.0601,  
8.1714

 43.0857, 54.7782,  
49.9772

 47.6366, 62.7296,  
55.0407

 52.5791, 71.4058,  
60.4150

# Harmonies

## Analogous

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



20.0481, 17.7430, 29.3691



21.3242, 17.7430, 22.7229



21.3370, 17.7430, 16.3782

# Triad

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



21.3242, 17.7430, 22.7229



15.8033, 17.7430, 9.7462



14.0101, 17.7430, 29.2558

# Complementary

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



21.3242, 17.7430, 22.7229



20.2023, 26.1774, 23.3912

# 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.



13.0647, 17.7430, 22.5926



21.3242, 17.7430, 22.7229



14.0366, 17.7430, 11.8714

# Square

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



21.3242, 17.7430, 22.7229



18.0142, 17.7430, 9.7661



13.0739, 17.7430, 16.2734



15.7642, 17.7430, 33.6674



# Rectangle

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



21.3242, 17.7430, 22.7229



20.6204, 17.7430, 13.1618



13.0739, 17.7430, 16.2734



13.5943, 17.7430, 27.1478

# Sweetspot

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



21.3247, 17.7438, 22.7233



46.6166, 46.1638, 52.7048



18.8037, 16.2583, 31.0015



10.1940, 10.0012, 11.4978



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.



21.3247, 17.7438, 22.7233



35.2184, 27.4279, 36.3874



19.9561, 17.1964, 15.5165



5.9220, 5.8639, 6.6952



11.6423, 5.8620, 6.8631



0.1574, 0.0777, 0.1625



# Inverse Universe

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



21.3247, 17.7438, 22.7233



35.2184, 27.4279, 36.3874



21.8801, 26.8486, 32.2265



5.9220, 5.8639, 6.6952



11.6423, 5.8620, 6.8631

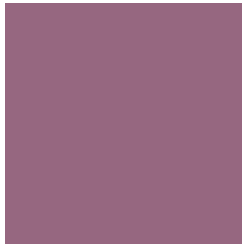


0.1574, 0.0777, 0.1625



# Previews

## White Background



This preview shows how the XYZ color 21.3242, 17.7430, 22.7229 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 21.3242, 17.7430, 22.7229 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 21.3242, 17.7430, 22.7229**

## **Background**



This preview shows how black text looks on a background with the XYZ color 21.3242, 17.7430, 22.7229.



This preview shows how white text looks on a background with the XYZ color 21.3242, 17.7430,



# 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

21.3242, 17.7430, 22.7229

### Protanopia

17.4994, 17.7791, 25.8019

### Deuteranopia

18.2407, 17.9010, 22.2325



## Tritanopia

20.4040, 17.8189, 18.2836

# Trichromacy



## Original Color

21.3242, 17.7430, 22.7229

## Protanomaly

18.5223, 17.4980, 24.5915

## Deuteranomaly

19.2382, 17.7525, 22.4913

## Tritanomaly

20.7758, 17.8246, 19.7983

# Monochromacy



## Original Color

21.3242, 17.7430, 22.7229

## Achromatopsia

17.8524, 18.7821, 20.4537

## Achromatomaly

18.9525, 18.2900, 21.2703

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 21.3242, 17.7430, 22.7229 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, 103, 128)` looks like.

```
.text, #text, p{  
    color:rgb(150, 103, 128)  
}
```

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, 103, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(150, 103, 128) }
```

## Border

The CSS property to change the border of an element to XYZ 21.3242, 17.7430, 22.7229 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, 103, 128) }
```



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

```
.border{ border-color:rgb(150, 103, 128) }
```

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

Here you see how a box with a 4 pixel `rgb(150, 103, 128)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(150, 103, 128); -webkit-box-  
shadow:4px 4px 4px 4px rgb(150, 103, 128);  
box-shadow:4px 4px 4px 4px rgb(150, 103,  
128) }
```

# Background

The CSS property to change the background color of an element to XYZ 21.3242, 17.7430, 22.7229 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(150, 103, 128) }
```

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

```
.background{ background-color: rgb(150,  
103, 128) }
```

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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