

# Converting Colors

XYZ(22.7870, 16.7723, 35.3203)

Have a look what the booklet for  
XYZ(22.7870, 16.7723, 35.3203)  
contains.

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# Color

**XYZ(22.8372, 16.8508,  
35.3066)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	965DA0
RGB	150, 93, 160
RGB Percent	59%, 36%, 63%
CMY	0.4118, 0.6353, 0.3725
CMYK	0.06, 0.42, 0.00, 0.37
HSL	291°, 26%, 50%
HSV	291°, 42%, 63%
XYZ	22.8372, 16.8508, 35.3066
YIQ	117.6810, 12.4650, 32.9210

# Conversions

## Conversions Part 2

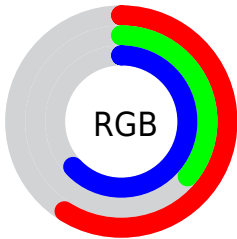
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	150, 93, 160
Decimal	9854368
CIE <sub>Lab</sub>	48.07, 34.67, -26.93
CIE <sub>LCh</sub>	48, 43.904, 322.157
Yxy	16.8508, 0.3045, 0.2247
Android (android.graphics.Color)	4288044448 (0xFF965DA0)
YUV	117.6810, 20.8633, 28.3438
Hunter-Lab	41.0497, 27.4679, -22.2601

# Details

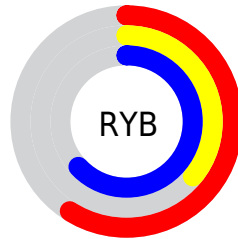
The XYZ color **22.8372, 16.8508, 35.3066** is a dark color, and the websafe version is hex **996699**. A complement of this color would be **20.1407, 28.8159, 14.8572**, and the grayscale version is **17.0550, 17.9432, 19.5401**.

A 20% lighter version of the original color is **47.5680, 38.1362, 69.1439**, and **8.6445, 5.4807, 14.7896** is the 20% darker color. If you saturate the color by 10%, you get **21.1422, 14.1062, 34.8664**, and if you desaturate by 10%, it is **24.8361, 20.1891, 35.8459**.

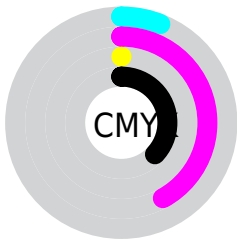
# Distribution



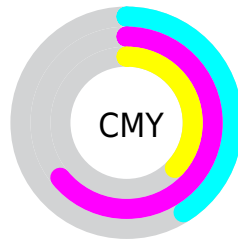
- Red (59%)
- Green (36%)
- Blue (63%)



- Red (59%)
- Yellow (36%)
- Blue (63%)



- Cyan (6%)
- Magenta (42%)
- Yellow (0%)
- Black (37%)



- Cyan (41%)
- Magenta (64%)
- Yellow (37%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 22.8372, 16.8508, 35.3066 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 22.8372, 16.8508, 35.3066 by changing the saturation by 10% instead.



■ 22.8372, 16.8508,  
35.3066

■ 22.8372, 16.8508,  
35.3066

259.4387,  
234.3111, 340.8649

■ 14.5934, 10.1282,  
23.6137

■ 47.5945, 38.0691,  
69.1174

■ 8.6190, 5.4840,  
14.8378

■ 64.8387, 53.3335,  
92.0724

■ 4.5486, 2.5340,  
8.5603

■ 85.8137, 72.2140,  
119.6185

■ 2.0169, 0.8936,  
4.3626

■ 110.8849, 95.0949,  
152.1743

■ 0.6434, 0.0000,  
1.8263

140.4176,  
122.3607, 190.1583

■ 0.0000, 0.0000,  
0.4452

174.7773,

■ 0.0000, 0.0000,

154.3958, 233.9890

0.0000

214.3292,  
191.5844, 284.0850

■ 22.8372, 16.8508,  
35.3066

■ 22.8372, 16.8508,  
35.3066

■ 21.1422, 14.1062,  
34.8664

■ 24.8361, 20.1891,  
35.8459

■ 19.7309, 11.9161,  
34.5181

■ 27.1541, 24.1527,  
36.4887

■ 18.5833, 10.2402,  
34.2551

■ 29.8075, 28.7736,  
37.2408

■ 17.6757, 9.0315,  
34.0696

■ 32.8108, 34.0809,  
38.1069

■ 16.9806, 8.2345,  
33.9524

■ 36.1778, 40.1019,  
39.0916

■ 16.5182, 7.7824,  
33.8895

■ 39.9215, 46.8625,  
40.1992

■ 44.0541, 54.3873,  
41.4339

■ 48.5875, 62.6997,  
42.7994

■ 53.5328, 71.8221,  
44.2996

# Harmonies

## Analogous

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



19.0732, 16.8508, 46.9805



22.8372, 16.8508, 35.3066



24.8374, 16.8508, 21.4975

# Triad

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



22.8372, 16.8508, 35.3066



17.0812, 16.8508, 4.0889



9.9323, 16.8508, 27.8967

# Complementary

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



22.8372, 16.8508, 35.3066



20.1407, 28.8159, 14.8572

# 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.



9.5783, 16.8508, 15.5216



22.8372, 16.8508, 35.3066



13.3046, 16.8508, 4.6298

# Square

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



22.8372, 16.8508, 35.3066



21.1742, 16.8508, 5.9270



10.7097, 16.8508, 7.9333



11.7722, 16.8508, 41.6122



# Rectangle

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



22.8372, 16.8508, 35.3066



24.7039, 16.8508, 14.1155



10.7097, 16.8508, 7.9333



9.6494, 16.8508, 23.3510

# Sweetspot

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



22.8378, 16.8515, 35.3070



53.4207, 51.0156, 67.4179



15.7153, 14.5764, 35.2432



11.4874, 10.7888, 14.7207



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.



22.8378, 16.8515, 35.3070



38.6459, 26.0229, 63.3726



22.8952, 17.0962, 25.5918



6.8068, 6.7044, 8.3420



12.8964, 6.0774, 26.4006



0.2546, 0.1210, 0.4732



# Inverse Universe

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



20.8603, 16.2823, 14.8760



34.7282, 24.9414, 20.8021



20.2642, 28.7407, 21.1408



6.6714, 6.6615, 7.1208



11.4314, 5.8771, 1.2567

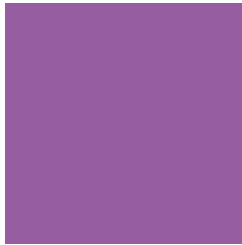


0.2144, 0.1091, 0.0753



# Previews

## White Background



This preview shows how the XYZ color 22.8372, 16.8508, 35.3066 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

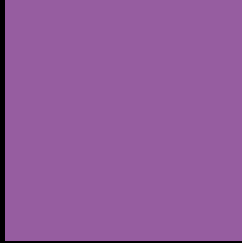
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 22.8372, 16.8508, 35.3066 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

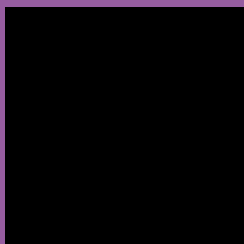
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 22.8372, 16.8508, 35.3066**

## **Background**



This preview shows how black text looks on a background with the XYZ color 22.8372, 16.8508, 35.3066.



This preview shows how white text looks on a background with the XYZ color 22.8372, 16.8508,



# 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

22.8372, 16.8508, 35.3066

### Protanopia

18.0443, 16.9982, 43.4042

### Deuteranopia

17.3854, 17.0353, 33.8243



## Tritanopia

19.2026, 16.9101, 17.5811

# Trichromacy



## Original Color

22.8372, 16.8508, 35.3066

## Protanomaly

19.1173, 16.5161, 40.2106

## Deuteranomaly

18.8476, 16.6643, 34.1214

## Tritanomaly

20.3737, 16.8103, 22.9398

# Monochromacy



## Original Color

22.8372, 16.8508, 35.3066

## Achromatopsia

17.2197, 18.1164, 19.7288

## Achromatomaly

18.9082, 17.3766, 24.5477

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.8372, 16.8508, 35.3066 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, 93, 160)` looks like.

```
.text, #text, p{  
    color:rgb(150, 93, 160)  
}
```

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, 93, 160) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(150, 93, 160) }
```

## Border

The CSS property to change the border of an element to XYZ 22.8372, 16.8508, 35.3066 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, 93, 160) }
```



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

```
.border{ border-color:rgb(150, 93, 160) }
```

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

Here you see how a box with a 4 pixel `rgb(150, 93, 160)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(150, 93, 160); -webkit-box-  
shadow:4px 4px 4px 4px rgb(150, 93, 160);  
box-shadow:4px 4px 4px 4px rgb(150, 93,  
160) }
```

# Background

The CSS property to change the background color of an element to XYZ 22.8372, 16.8508, 35.3066 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(150, 93, 160) }
```

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

```
.background{ background-color: rgb(150, 93,  
160) }
```

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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