

# Converting Colors

XYZ(31.5610, 23.9909, 57.9813)

Have a look what the booklet for  
XYZ(31.5610, 23.9909, 57.9813)  
contains.

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# Color

**XYZ(31.6642, 24.0382,  
58.2293)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A372C9
RGB	163, 114, 201
RGB Percent	64%, 45%, 79%
CMY	0.3608, 0.5529, 0.2118
CMYK	0.19, 0.43, 0.00, 0.21
HSL	274°, 45%, 62%
HSV	274°, 43%, 79%
XYZ	31.6642, 24.0382, 58.2293
YIQ	138.5690, 1.2770, 37.4450

# Conversions

## Conversions Part 2

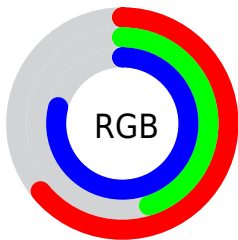
<b>Format</b>	<b>Color</b>
<b>RYB</b>	163, 114, 201
Decimal	10711753
CIELab	56.13, 35.73, -37.98
CIELCh	56, 52.146, 313.246
Yxy	24.0382, 0.2779, 0.2110
Android (android.graphics.Color)	4288901833 (0xFFA372C9)
YUV	138.5690, 30.7785, 21.4260
Hunter-Lab	49.0288, 29.4801, -36.0960

# Details

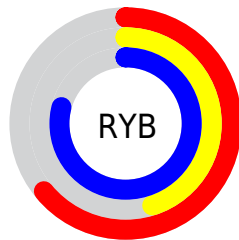
The XYZ color **31.6642, 24.0382, 58.2293** is a light color, and the websafe version is hex **9966CC**. A complement of this color would be **36.8734, 49.6641, 23.5632**, and the grayscale version is **24.2612, 25.5247, 27.7964**.

A 20% lighter version of the original color is **61.0821, 49.9175, 101.0234**, and **13.4065, 9.0246, 28.6391** is the 20% darker color. If you saturate the color by 10%, you get **27.9057, 19.0972, 57.4741**, and if you desaturate by 10%, it is **36.0474, 30.0418, 59.1575**.

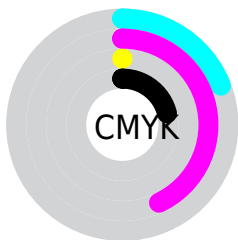
# Distribution



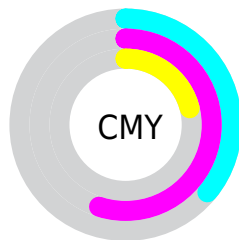
- Red (64%)
- Green (45%)
- Blue (79%)



- Red (64%)
- Yellow (45%)
- Blue (79%)



- Cyan (19%)
- Magenta (43%)
- Yellow (0%)
- Black (21%)



- Cyan (36%)
- Magenta (55%)
- Yellow (21%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.6642, 24.0382, 58.2293 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 31.6642, 24.0382, 58.2293 by changing the saturation by 10% instead.



■ 31.6642, 24.0382,  
58.2293

■ 31.6642, 24.0382,  
58.2293

301.3593,  
273.0135, 435.6619

■ 21.2594, 15.3620,  
41.5771

■ 61.6530, 50.0925,  
103.7748

■ 13.4273, 9.0738,  
28.4472

■ 81.9678, 68.2394,  
133.5051

■ 7.8025, 4.7894,  
18.4211

■ 106.3167, 90.3120,  
168.4319

■ 4.0196, 2.1242,  
11.0802

■ 135.0650,  
116.6946, 208.9738

■ 1.7132, 0.6782,  
6.0059

168.5780,  
147.7716, 255.5491

■ 0.4645, 0.0000,  
2.7798

207.2212,

■ 0.0000, 0.0000,

183.9276, 308.5766

0.9833

251.3598,  
225.5467, 368.4747

■ 0.0000, 0.0000,  
0.0000

■ 31.6642, 24.0382,  
58.2293

■ 31.6642, 24.0382,  
58.2293

■ 27.9057, 19.0972,  
57.4741

■ 36.0474, 30.0418,  
59.1575

■ 24.7337, 15.1485,  
56.8791

■ 41.0851, 37.1662,  
60.2671

■ 22.1097, 12.1179,  
56.4324

■ 46.8081, 45.4689,  
61.5681

■ 19.9883, 9.9189,  
56.1198

■ 53.2445, 55.0024,  
63.0690

■ 18.3154, 8.4474,  
55.9239

■ 60.4206, 65.8162,  
64.7780

■ 17.3796, 7.7416,  
55.8370

■ 68.3614, 77.9568,  
66.7029

■ 77.0905, 91.4685,  
68.8508

■ 79.9841, 93.1005,  
69.0133

■ 82.9259, 94.6170,  
69.1510

# Harmonies

## Analogous

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



25.5843, 24.0382, 73.0853



31.6642, 24.0382, 58.2293



35.7191, 24.0382, 36.8586

# Triad

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



31.6642, 24.0382, 58.2293



26.3246, 24.0382, 5.6104



13.3844, 24.0382, 34.4658

# Complementary

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



31.6642, 24.0382, 58.2293



36.8734, 49.6641, 23.5632

# 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.



13.5123, 24.0382, 17.7831



31.6642, 24.0382, 58.2293



20.3133, 24.0382, 5.4256

# Square

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



31.6642, 24.0382, 58.2293



32.2870, 24.0382, 9.4753



15.8413, 24.0382, 8.7695



15.4546, 24.0382, 55.8335



# Rectangle

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



31.6642, 24.0382, 58.2293



36.3554, 24.0382, 24.3533



15.8413, 24.0382, 8.7695



13.1841, 24.0382, 28.0823

# Sweetspot

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



31.6651, 24.0392, 58.2298



80.2437, 77.9995, 105.4338



28.8987, 30.6270, 59.6472



16.6831, 15.9746, 22.4541



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

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



31.6651, 24.0392, 58.2298



48.1066, 33.1191, 98.4649



40.1433, 28.4682, 55.9929



10.6186, 10.5772, 13.3994



11.0343, 4.9226, 35.1129



0.6045, 0.2754, 1.6664



# Inverse Universe

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



35.7729, 26.7200, 32.9785



56.5193, 38.5857, 47.8182



31.1177, 46.6676, 24.6174



10.8230, 10.7126, 12.0514



16.2916, 8.2662, 6.7457



0.8076, 0.4059, 0.5102



# Previews

## White Background



This preview shows how the XYZ color 31.6642, 24.0382, 58.2293 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

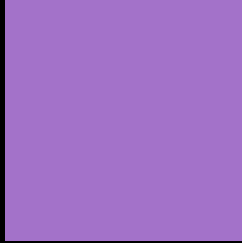
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 31.6642, 24.0382, 58.2293 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 31.6642, 24.0382, 58.2293**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.6642, 24.0382, 58.2293.



This preview shows how white text looks on a background with the XYZ color 31.6642, 24.0382,



# 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

31.6642, 24.0382, 58.2293

### Protanopia

26.2551, 24.3371, 68.9594

### Deuteranopia

24.9098, 24.3326, 56.2071



## Tritanopia

25.4435, 24.0456, 27.3450

# Trichromacy



## Original Color

31.6642, 24.0382, 58.2293

## Protanomaly

27.4037, 23.6555, 64.7496

## Deuteranomaly

26.8357, 23.9231, 56.6293

## Tritanomaly

27.4206, 23.9072, 36.8875

# Monochromacy



## Original Color

31.6642, 24.0382, 58.2293

## Achromatopsia

24.5403, 25.8183, 28.1161

## Achromatomaly

26.7170, 24.8698, 37.5746

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.6642, 24.0382, 58.2293 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(163, 114, 201)` looks like.

```
.text, #text, p{  
    color:rgb(163, 114, 201)  
}
```

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(163, 114, 201) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(163, 114, 201) }
```

## Border

The CSS property to change the border of an element to XYZ 31.6642, 24.0382, 58.2293 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(163, 114, 201) }
```



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

```
.border{ border-color:rgb(163, 114, 201) }
```

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

Here you see how a box with a 4 pixel `rgb(163, 114, 201)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(163, 114, 201); -webkit-box-  
shadow:4px 4px 4px 4px rgb(163, 114, 201);  
box-shadow:4px 4px 4px 4px rgb(163, 114,  
201) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.6642, 24.0382, 58.2293 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(163, 114, 201) }
```

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

```
.background{ background-color: rgb(163,  
114, 201) }
```

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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