

# Converting Colors

XYZ(31.6435, 25.2002, 56.6176)

Have a look what the booklet for  
XYZ(31.6435, 25.2002, 56.6176)  
contains.

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# Color

**XYZ(31.7284, 25.3290,  
56.6428)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A179C6
RGB	161, 121, 198
RGB Percent	63%, 47%, 78%
CMY	0.3686, 0.5255, 0.2235
CMYK	0.19, 0.39, 0.00, 0.22
HSL	271°, 40%, 63%
HSV	271°, 39%, 78%
XYZ	31.7284, 25.3290, 56.6428
YIQ	141.7380, -0.8770, 32.4270

# Conversions

## Conversions Part 2

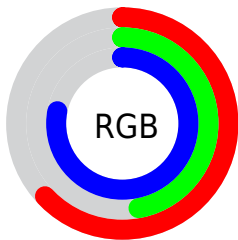
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	161, 121, 198
Decimal	10582470
CIE <sub>Lab</sub>	57.39, 30.49, -34.31
CIE <sub>LCh</sub>	57, 45.901, 311.630
Yxy	25.3290, 0.2791, 0.2228
Android (android.graphics.Color)	4288772550 (0xFFA179C6)
YUV	141.7380, 27.7372, 16.8928
Hunter-Lab	50.3279, 24.4585, -31.4998

# Details

The XYZ color **31.7284, 25.3290, 56.6428** is a light color, and the websafe version is hex **9966CC**. A complement of this color would be **37.7464, 49.0383, 25.5660**, and the grayscale version is **25.5027, 26.8308, 29.2188**.

A 20% lighter version of the original color is **61.8013, 52.2438, 101.4345**, and **13.4716, 9.7082, 27.5494** is the 20% darker color. If you saturate the color by 10%, you get **27.7198, 20.0502, 55.8356**, and if you desaturate by 10%, it is **36.3784, 31.6727, 57.6226**.

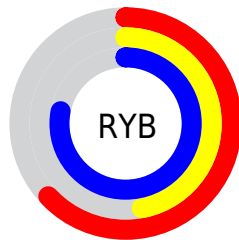
# Distribution



Red (63%)

Green (47%)

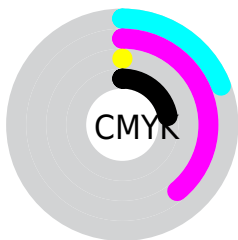
Blue (78%)



Red (63%)

Yellow (47%)

Blue (78%)

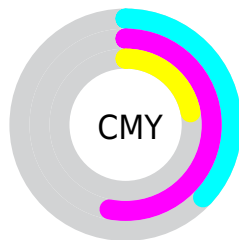


Cyan (19%)

Magenta (39%)

Yellow (0%)

Black (22%)



Cyan (37%)

Magenta (53%)

Yellow (22%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.7284, 25.3290, 56.6428 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 31.7284, 25.3290, 56.6428 by changing the saturation by 10% instead.



31.7284, 25.3290,  
56.6428

31.7284, 25.3290,  
56.6428

301.6475,  
279.4724, 429.5657

21.3087, 16.3223,  
40.3111

61.7531, 52.1905,  
101.4390

13.4636, 9.7525,  
27.4655

82.0889, 70.8140,  
130.7405

7.8277, 5.2352,  
17.6876

106.4606, 93.4121,  
165.2023

4.0358, 2.3859,  
10.5588

135.2338,  
120.3689, 205.2431

1.7224, 0.8186,  
5.6606

168.7737,  
152.0690, 251.2812

0.4702, 0.0000,  
2.5744

207.4457,

0.0000, 0.0000,

188.8967, 303.7354

0.8792

251.6152,  
231.2363, 363.0240

■ 0.0000, 0.0000,  
0.0000

■ 31.7284, 25.3290,  
56.6428

■ 31.7284, 25.3290,  
56.6428

■ 27.7198, 20.0502,  
55.8356

■ 36.3784, 31.6727,  
57.6226

■ 24.3165, 15.7707,  
55.1889

■ 41.6983, 39.1355,  
58.7827

■ 21.4820, 12.4222,  
54.6920

■ 47.7176, 47.7714,  
60.1323

■ 19.1747, 9.9262,  
54.3318

■ 54.4634, 57.6302,  
61.6797

■ 17.3458, 8.1906,  
54.0932

■ 61.9611, 68.7585,  
63.4325

15.9164, 7.0632,  
53.9509

70.2349, 81.2006,  
65.3980

15.7705, 6.9525,  
53.9373

77.8217, 92.0261,  
67.0877

80.9168, 93.6217,  
67.2325

84.1804, 95.3042,  
67.3853

# Harmonies

## Analogous

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



26.2493, 25.3290, 68.6549



31.7284, 25.3290, 56.6428



35.4518, 25.3290, 38.1598

# Triad

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



31.7284, 25.3290, 56.6428



27.5304, 25.3290, 7.7767



15.2000, 25.3290, 34.0819

# Complementary

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



31.7284, 25.3290, 56.6428



37.7464, 49.0383, 25.5660

# 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.



15.4359, 25.3290, 19.1607



31.7284, 25.3290, 56.6428



22.0232, 25.3290, 7.3906

# Square

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



31.7284, 25.3290, 56.6428



32.7873, 25.3290, 12.0603



17.7625, 25.3290, 10.6791



17.0605, 25.3290, 52.7059



# Rectangle

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



31.7284, 25.3290, 56.6428



36.1420, 25.3290, 26.7343



17.7625, 25.3290, 10.6791



15.0453, 25.3290, 28.4412

# Sweetspot

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



31.7293, 25.3300, 56.6434



80.8492, 79.3238, 105.6575



30.3429, 32.6707, 58.1333



16.9989, 16.5383, 22.5462



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.



31.7293, 25.3300, 56.6434



49.8686, 36.5157, 99.0276



40.1723, 29.6996, 56.2690



10.5735, 10.5539, 13.3973



10.3552, 4.5726, 35.0812



0.5737, 0.2595, 1.6650



# Inverse Universe

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



36.2983, 28.1500, 35.8686



59.5215, 42.4685, 55.3598



31.6104, 45.8659, 25.6924



10.8426, 10.7204, 12.1543



16.5355, 8.3638, 8.0297

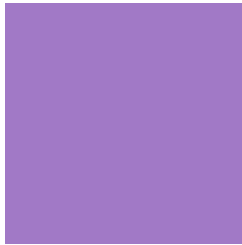


0.8195, 0.4106, 0.5727



# Previews

## White Background



This preview shows how the XYZ color 31.7284, 25.3290, 56.6428 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

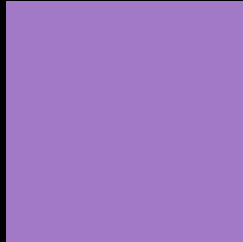
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 31.7284, 25.3290, 56.6428 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

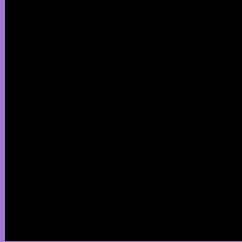
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 31.7284, 25.3290, 56.6428**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.7284, 25.3290, 56.6428.



This preview shows how white text looks on a background with the XYZ color 31.7284, 25.3290,



# 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

31.7284, 25.3290, 56.6428

### Protanopia

27.1191, 25.7062, 64.5052

### Deuteranopia

26.1321, 25.6134, 55.1963



## Tritanopia

26.2943, 25.4336, 29.5099

# Trichromacy



## Original Color

31.7284, 25.3290, 56.6428

## Protanomaly

28.4628, 25.4347, 61.8017

## Deuteranomaly

27.7530, 25.2047, 55.6268

## Tritanomaly

27.9787, 25.3134, 38.0617

# Monochromacy



## Original Color

31.7284, 25.3290, 56.6428

## Achromatopsia

25.7108, 27.0498, 29.4572

## Achromatomaly

27.4411, 26.0484, 37.7640

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.7284, 25.3290, 56.6428 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(161, 121, 198)` looks like.

```
.text, #text, p{  
    color:rgb(161, 121, 198)  
}
```

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(161, 121, 198) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(161, 121, 198) }
```

## Border

The CSS property to change the border of an element to XYZ 31.7284, 25.3290, 56.6428 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(161, 121, 198) }
```



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

```
.border{ border-color:rgb(161, 121, 198) }
```

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

Here you see how a box with a 4 pixel `rgb(161, 121, 198)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(161, 121, 198); -webkit-box-  
shadow:4px 4px 4px 4px rgb(161, 121, 198);  
box-shadow:4px 4px 4px 4px rgb(161, 121,  
198) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.7284, 25.3290, 56.6428 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(161, 121, 198) }
```

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

```
.background{ background-color: rgb(161,  
121, 198) }
```

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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