

# Converting Colors

XYZ(31.6050, 26.8583, 48.6463)

Have a look what the booklet for  
XYZ(31.6050, 26.8583, 48.6463)  
contains.

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# Color

**XYZ(31.8118, 27.0537,  
48.8926)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A481B8
RGB	164, 129, 184
RGB Percent	64%, 51%, 72%
CMY	0.3569, 0.4941, 0.2784
CMYK	0.11, 0.30, 0.00, 0.28
HSL	278°, 28%, 61%
HSV	278°, 30%, 72%
XYZ	31.8118, 27.0537, 48.8926
YIQ	145.7350, 3.2050, 24.5250

# Conversions

## Conversions Part 2

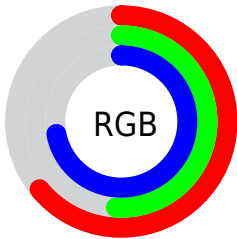
<b>Format</b>	<b>Color</b>
<b>RYB</b>	164, 129, 184
Decimal	10781112
CIELab	59.02, 23.77, -23.80
CIELCh	59, 33.640, 314.966
Yxy	27.0537, 0.2952, 0.2511
Android (android.graphics.Color)	4288971192 (0xFFA481B8)
YUV	145.7350, 18.8646, 16.0184
Hunter-Lab	52.0132, 18.1494, -19.3236

# Details

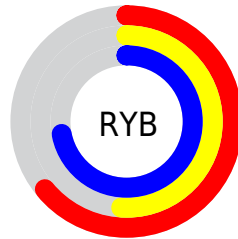
The XYZ color **31.8118, 27.0537, 48.8926** is a light color, and the websafe version is hex **996699**. A complement of this color would be **33.4983, 42.2562, 27.1608**, and the grayscale version is **27.1383, 28.5516, 31.0927**.

A 20% lighter version of the original color is **61.9713, 54.9628, 89.7807**, and **13.4483, 10.6102, 22.8119** is the 20% darker color. If you saturate the color by 10%, you get **28.2584, 21.9426, 48.0938**, and if you desaturate by 10%, it is **35.8761, 33.0773, 49.8415**.

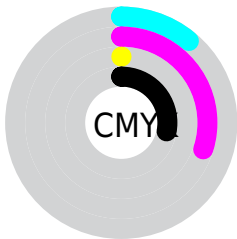
# Distribution



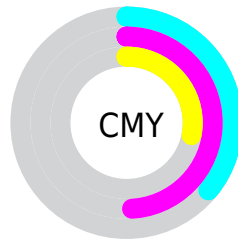
- Red (64%)
- Green (51%)
- Blue (72%)



- Red (64%)
- Yellow (51%)
- Blue (72%)



- Cyan (11%)
- Magenta (30%)
- Yellow (0%)
- Black (28%)



- Cyan (36%)
- Magenta (49%)
- Yellow (28%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.8118, 27.0537, 48.8926 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 31.8118, 27.0537, 48.8926 by changing the saturation by 10% instead.



■ 31.8118, 27.0537,  
48.8926

■ 31.8118, 27.0537,  
48.8926

302.0216,  
287.9170, 398.9297

■ 21.3726, 17.6136,  
34.1693

■ 61.8831, 54.9700,  
89.9113

■ 13.5107, 10.6729,  
22.7453

■ 82.2460, 74.2150,  
117.0437

■ 7.8605, 5.8473,  
14.2020

■ 106.6475, 97.4970,  
149.1496

■ 4.0569, 2.7525,  
8.1209

135.4529,  
125.2005, 186.6474

■ 1.7344, 1.0039,  
4.0836

169.0277,  
157.7099, 229.9558

■ 0.4776, 0.0000,  
1.6713

207.7372,

■ 0.0000, 0.0000,

195.4095, 279.4933

0.3409

251.9467,  
238.6837, 335.6784

■ 0.0000, 0.0000,  
0.0000

■ 31.8118, 27.0537,  
48.8926

■ 31.8118, 27.0537,  
48.8926

■ 28.2584, 21.9426,  
48.0938

■ 35.8761, 33.0773,  
49.8415

■ 25.1886, 17.6933,  
47.4354

■ 40.4713, 40.0540,  
50.9459

■ 22.5766, 14.2549,  
46.9094

■ 45.6197, 48.0260,  
52.2133

■ 20.3927, 11.5700,  
46.5062

■ 51.3412, 57.0317,  
53.6500

■ 18.6034, 9.5732,  
46.2151

■ 57.6550, 67.1077,  
55.2621

■ 17.1693, 8.1875,  
46.0232

■ 64.5790, 78.2888,  
57.0554

■ 16.0122, 7.2584,  
45.9049

■ 71.2296, 88.8058,  
58.7348

■ 16.0001, 7.2489,  
45.9037

■ 73.1848, 89.8137,  
58.8263

■ 75.2207, 90.8633,  
58.9216

# Harmonies

## Analogous

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



27.8423, 27.0537, 57.7047



31.8118, 27.0537, 48.8926



34.2684, 27.0537, 35.8293

# Triad

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



31.8118, 27.0537, 48.8926



27.8519, 27.0537, 12.3694



18.7143, 27.0537, 35.7996

# Complementary

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



31.8118, 27.0537, 48.8926



33.4983, 42.2562, 27.1608

# 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.



18.7163, 27.0537, 23.8887



31.8118, 27.0537, 48.8926



23.6965, 27.0537, 12.3655

# Square

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



31.8118, 27.0537, 48.8926



31.8195, 27.0537, 16.0177



20.4495, 27.0537, 16.0050



20.4437, 27.0537, 48.8658



# Rectangle

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



31.8118, 27.0537, 48.8926



34.5654, 27.0537, 27.5118



20.4495, 27.0537, 16.0050



18.5191, 27.0537, 31.4916

# Sweetspot

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



31.8127, 27.0548, 48.8932



74.0197, 73.6137, 92.5122



28.4798, 29.6766, 49.5749



15.6816, 15.4470, 19.8767



88.6918, 93.3107, 101.6153



17.8044, 18.7317, 20.3988



# Same Dimension

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



31.8127, 27.0548, 48.8932



53.2445, 42.6461, 87.6298



35.5208, 29.0530, 45.1572



9.0557, 8.9950, 11.3384



11.1067, 5.0369, 31.6399



0.4569, 0.2112, 1.1184



# Inverse Universe

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



33.0431, 28.0619, 32.1098



56.0261, 44.8829, 51.4917



30.6623, 40.7358, 29.6649



9.1360, 9.0648, 10.0634



14.3511, 7.3142, 4.4695

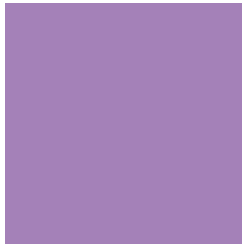


0.5361, 0.2699, 0.3168



# Previews

## White Background



This preview shows how the XYZ color 31.8118, 27.0537, 48.8926 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

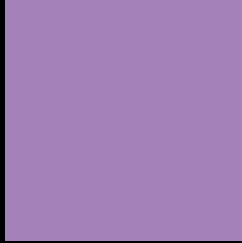
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 31.8118, 27.0537, 48.8926 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 31.8118, 27.0537, 48.8926**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.8118, 27.0537, 48.8926.



This preview shows how white text looks on a background with the XYZ color 31.8118, 27.0537,



# 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

31.8118, 27.0537, 48.8926

### Protanopia

27.7561, 27.1184, 54.2236

### Deuteranopia

27.8133, 27.2845, 48.0565



## Tritanopia

28.1712, 26.9840, 31.3274

# Trichromacy



## Original Color

31.8118, 27.0537, 48.8926

## Protanomaly

28.9136, 26.9015, 52.3838

## Deuteranomaly

29.2055, 27.1382, 48.4986

## Tritanomaly

29.2299, 26.7867, 36.8875

# Monochromacy



## Original Color

31.8118, 27.0537, 48.8926

## Achromatopsia

27.3213, 28.7441, 31.3023

## Achromatomaly

28.8601, 28.0665, 37.1540

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.8118, 27.0537, 48.8926 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(164, 129, 184)` looks like.

```
.text, #text, p{  
    color:rgb(164, 129, 184)  
}
```

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(164, 129, 184) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(164, 129, 184) }
```

## Border

The CSS property to change the border of an element to XYZ 31.8118, 27.0537, 48.8926 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(164, 129, 184) }
```



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

```
.border{ border-color:rgb(164, 129, 184) }
```

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

Here you see how a box with a 4 pixel `rgb(164, 129, 184)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(164, 129, 184); -webkit-box-  
shadow:4px 4px 4px 4px rgb(164, 129, 184);  
box-shadow:4px 4px 4px 4px rgb(164, 129,  
184) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.8118, 27.0537, 48.8926 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(164, 129, 184) }
```

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

```
.background{ background-color: rgb(164,  
129, 184) }
```

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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