

# Converting Colors

XYZ(38.5130, 30.9680, 52.3745)

Have a look what the booklet for  
XYZ(38.5130, 30.9680, 52.3745)  
contains.

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# Color

**XYZ(38.4228, 30.9955,  
52.1017)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BD84BD
RGB	189, 132, 189
RGB Percent	74%, 52%, 74%
CMY	0.2588, 0.4823, 0.2588
CMYK	0.00, 0.30, 0.00, 0.26
HSL	300°, 30%, 63%
HSV	300°, 30%, 74%
XYZ	38.4228, 30.9955, 52.1017
YIQ	155.5410, 15.6750, 29.8110

# Conversions

## Conversions Part 2

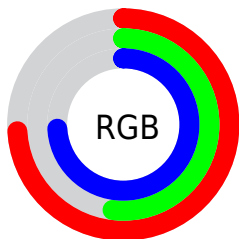
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	189, 132, 189
Decimal	12420285
CIE Lab	62.50, 31.32, -21.08
CIE LCh	63, 37.758, 326.060
Yxy	30.9955, 0.3162, 0.2551
Android (android.graphics.Color)	4290610365 (0xFFBD84BD)
YUV	155.5410, 16.4953, 29.3435
Hunter-Lab	55.6736, 25.7619, -16.5146

# Details

The XYZ color **38.4228, 30.9955, 52.1017** is a light color, and the websafe version is hex **CC99CC**. A complement of this color would be **31.8794, 42.9676, 28.4449**, and the grayscale version is **31.3206, 32.9517, 35.8844**.

A 20% lighter version of the original color is **72.0464, 61.3032, 94.4216**, and **17.3780, 12.8133, 24.8498** is the 20% darker color. If you saturate the color by 10%, you get **36.0887, 26.3267, 51.3239**, and if you desaturate by 10%, it is **41.2232, 36.5956, 53.0355**.

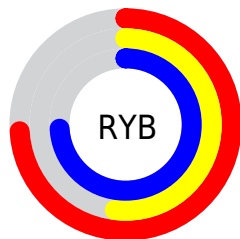
# Distribution



Red (74%)

Green (52%)

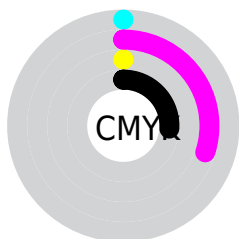
Blue (74%)



Red (74%)

Yellow (52%)

Blue (74%)

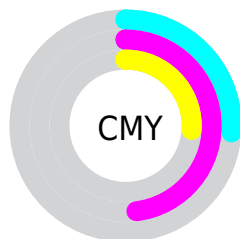


Cyan (0%)

Magenta (30%)

Yellow (0%)

Black (26%)



Cyan (26%)

Magenta (48%)


Yellow (26%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.4228, 30.9955, 52.1017 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 38.4228, 30.9955, 52.1017 by changing the saturation by 10% instead.





 38.4228, 30.9955,  
52.1017


 38.4228, 30.9955,  
52.1017

330.6798,  
306.5176, 411.7972


 26.4897, 20.5954,  
36.7033


 72.0554, 61.2330,  
94.7093

 17.3249, 12.8286,  
24.6839


 94.4857, 81.8392,  
122.7557

 10.5632, 7.3106,  
15.6248


 121.1457,  
106.6162, 155.8551

 5.8390, 3.6571,  
9.1076

152.4009,  
135.9485, 194.4261

 2.7872, 1.4837,  
4.7137

188.6165,  
170.2203, 238.8873

 1.0422, 0.2772,  
2.0245

230.1580,

 0.0000, 0.0000,

209.8162, 289.6572

0.5703

277.3906,  
255.1205, 347.1543

■ 0.0000, 0.0000,  
0.0000

■ 38.4228, 30.9955,  
52.1017

■ 38.4228, 30.9955,  
52.1017

■ 36.0887, 26.3267,  
51.3239

■ 41.2232, 36.5956,  
53.0355

■ 34.1928, 22.5349,  
50.6919

■ 44.5101, 43.1694,  
54.1312

■ 32.7086, 19.5666,  
50.1972


■ 48.3061, 50.7614,  
55.3966


■ 31.6057, 17.3608,  
49.8295


■ 52.6316, 59.4125,  
56.8385


■ 30.8492, 15.8478,  
49.5773


■ 57.5059, 69.1609,  
58.4633


 30.3981, 14.9455,  
49.4268

 62.9471, 80.0434,  
60.2771

 30.1718, 14.4931,  
49.3514

 65.9320, 86.0131,  
61.2721

 65.9320, 86.0131,  
61.2722

 65.9320, 86.0131,  
61.2722

# Harmonies

## Analogous

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



34.0086, 30.9955, 66.0109



38.4228, 30.9955, 52.1017



40.4349, 30.9955, 35.7269

# Triad

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



38.4228, 30.9955, 52.1017



30.1431, 30.9955, 12.6860



21.4593, 30.9955, 47.7395

# Complementary

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



38.4228, 30.9955, 52.1017



31.8794, 42.9676, 28.4449

# 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.



20.6762, 30.9955, 31.8451



38.4228, 30.9955, 52.1017



25.3367, 30.9955, 14.2036

# Square

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



38.4228, 30.9955, 52.1017



35.3166, 30.9955, 15.3216



22.0126, 30.9955, 20.3081



24.2900, 30.9955, 63.0219



# Rectangle

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



38.4228, 30.9955, 52.1017



39.9899, 30.9955, 26.5228



22.0126, 30.9955, 20.3081



20.9631, 30.9955, 42.1809

# Sweetspot

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



38.4238, 30.9969, 52.1024



80.3631, 78.6083, 97.1635



26.9537, 25.0838, 51.5657



17.0823, 16.5055, 20.8281



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438



# Same Dimension

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



38.4238, 30.9969, 52.1024



66.0388, 49.9600, 92.3885



35.6276, 29.8784, 37.3781



9.9300, 9.6963, 12.0204



20.3003, 9.7513, 33.2048



0.7952, 0.3820, 1.3007



# Inverse Universe

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



38.4238, 30.9969, 52.1024



66.0388, 49.9600, 92.3885



34.1035, 43.8572, 40.1566



9.9300, 9.6963, 12.0204



20.3003, 9.7513, 33.2048

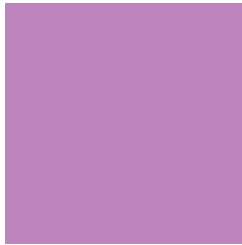


0.7952, 0.3820, 1.3007



# Previews

## White Background



This preview shows how the XYZ color 38.4228, 30.9955, 52.1017 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

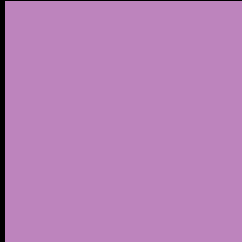
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 38.4228, 30.9955, 52.1017 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

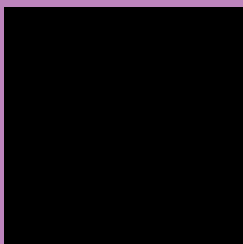
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 38.4228, 30.9955, 52.1017**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.4228, 30.9955, 52.1017.



This preview shows how white text looks on a background with the XYZ color 38.4228, 30.9955,



# 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

38.4228, 30.9955, 52.1017

### Protanopia

31.8835, 31.3953, 60.2566

### Deuteranopia

31.8473, 31.1145, 50.7815



## Tritanopia

34.6503, 31.1485, 33.0402

# Trichromacy



## Original Color

38.4228, 30.9955, 52.1017

## Protanomaly

33.6108, 30.7441, 56.9860

## Deuteranomaly

33.9525, 30.8264, 51.1743

## Tritanomaly

35.8962, 31.0108, 39.2157

# Monochromacy



## Original Color

38.4228, 30.9955, 52.1017

## Achromatopsia

31.5995, 33.2452, 36.2040

## Achromatomaly

33.6501, 32.0194, 41.4526

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.4228, 30.9955, 52.1017 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(189, 132, 189)` looks like.

```
.text, #text, p{  
    color:rgb(189, 132, 189)  
}
```

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(189, 132, 189) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 132, 189) }
```

## Border

The CSS property to change the border of an element to XYZ 38.4228, 30.9955, 52.1017 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".

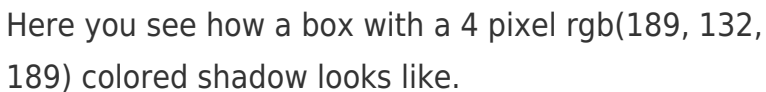
```
.border, #border, table{ border:4px solid rgb(189, 132, 189) }
```



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

```
.border{ border-color:rgb(189, 132, 189) }
```

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



Here you see how a box with a 4 pixel `rgb(189, 132, 189)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 132, 189); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 132, 189);  
box-shadow:4px 4px 4px 4px rgb(189, 132,  
189) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.4228, 30.9955, 52.1017 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 132, 189) }
```

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

```
.background{ background-color: rgb(189,  
132, 189) }
```

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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