

# Converting Colors

XYZ(38.9769, 31.4066, 55.6375)

Have a look what the booklet for  
XYZ(38.9769, 31.4066, 55.6375)  
contains.

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# Color

**XYZ(38.9769, 31.4066,  
55.6375)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BC85C3
RGB	188, 133, 195
RGB Percent	74%, 52%, 76%
CMY	0.2627, 0.4784, 0.2353
CMYK	0.04, 0.32, 0.00, 0.24
HSL	293°, 34%, 64%
HSV	293°, 32%, 76%
XYZ	38.9769, 31.4066, 55.6375
YIQ	156.5130, 12.8780, 30.9420

# Conversions

## Conversions Part 2

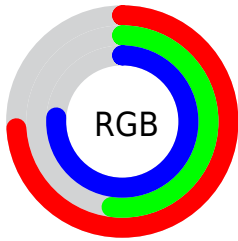
Format	Color
R <sub>Y</sub> B	188, 133, 195
Decimal	12355011
CIE Lab	62.85, 31.60, -23.95
CIE LCh	63, 39.652, 322.848
Yxy	31.4066, 0.3093, 0.2492
Android (android.graphics.Color)	4290545091 (0xFFBC85C3)
YUV	156.5130, 18.9741, 27.6141
Hunter-Lab	56.0416, 26.0739, -19.6334

# Details

The XYZ color **38.9769, 31.4066, 55.6375** is a light color, and the websafe version is hex **CC99CC**. A complement of this color would be **34.5651, 46.2999, 29.3069**, and the grayscale version is **31.7438, 33.3970, 36.3693**.

A 20% lighter version of the original color is **72.9972, 61.9814, 100.2117**, and **17.6565, 13.0260, 26.7830** is the 20% darker color. If you saturate the color by 10%, you get **36.0131, 26.2773, 54.8041**, and if you desaturate by 10%, it is **42.4466, 37.5340, 56.6378**.

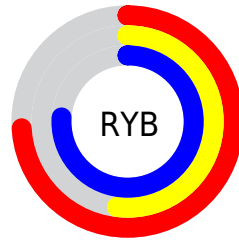
# Distribution



Red (74%)

Green (52%)

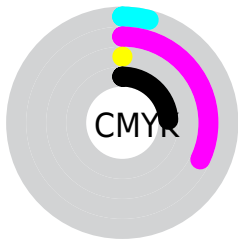
Blue (76%)



Red (74%)

Yellow (52%)

Blue (76%)

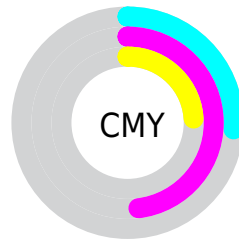


Cyan (4%)

Magenta (32%)

Yellow (0%)

Black (24%)



Cyan (26%)

Magenta (48%)


Yellow (24%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.9769, 31.4066, 55.6375 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 38.9769, 31.4066, 55.6375 by changing the saturation by 10% instead.





 38.9769, 31.4066,  
55.6375


 38.9769, 31.4066,  
55.6375


333.0011,  
308.4072, 425.6738


 26.9224, 20.9087,  
39.5103


 72.8973, 61.8797,  
99.9549

 17.6512, 13.0573,  
26.8461


 95.4940, 82.6236,  
128.9821

 10.7981, 7.4680,  
17.2262


 122.3354,  
107.5516, 163.1465

 5.9975, 3.7565,  
10.2323

153.7869,  
137.0481, 202.8665

 2.8842, 1.5383,  
5.4456

190.2138,  
171.4975, 248.5607

 1.0928, 0.3154,  
2.4477

231.9816,

 0.0191, 0.0000,

211.2843, 300.6476

0.8123

279.4556,  
256.7927, 359.5458

■ 0.0000, 0.0000,  
0.0000

■ 38.9769, 31.4066,  
55.6375

■ 38.9769, 31.4066,  
55.6375

■ 36.0131, 26.2773,  
54.8041

■ 42.4466, 37.5340,  
56.6378

■ 33.5245, 22.0871,  
54.1265

■ 46.4446, 44.7063,  
57.8115

■ 31.4822, 18.7771,  
53.5952

■ 50.9955, 52.9719,  
59.1670

■ 29.8523, 16.2799,  
53.1991

■ 56.1214, 62.3754,  
60.7119

■ 28.5964, 14.5185,  
52.9253

■ 61.8435, 72.9585,  
62.4531

■ 27.6683, 13.4008,  
52.7585

■ 68.1816, 84.7611,  
64.3972

■ 27.0807, 12.8227,  
52.6779

■ 70.3514, 88.2146,  
64.9494

■ 70.9569, 88.5268,  
64.9777

■ 71.5709, 88.8433,  
65.0065

# Harmonies

## Analogous

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



34.0945, 31.4066, 69.8467



38.9769, 31.4066, 55.6375



41.4642, 31.4066, 38.0586

# Triad

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



38.9769, 31.4066, 55.6375



31.1708, 31.4066, 12.2702



21.2209, 31.4066, 47.1806

# Complementary

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



38.9769, 31.4066, 55.6375



34.5651, 46.2999, 29.3069

# 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.



20.6380, 31.4066, 30.6048



38.9769, 31.4066, 55.6375



25.9751, 31.4066, 13.3695

# Square

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



38.9769, 31.4066, 55.6375



36.6159, 31.4066, 15.4618



22.2739, 31.4066, 19.1217



23.9753, 31.4066, 64.0198



# Rectangle

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



38.9769, 31.4066, 55.6375



41.2401, 31.4066, 27.9648



22.2739, 31.4066, 19.1217



20.7793, 31.4066, 41.2912

# Sweetspot

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



38.9779, 31.4080, 55.6382



84.4484, 82.3574, 103.9154



28.9368, 27.7527, 55.4619



18.2504, 17.5963, 22.6845



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.



38.9779, 31.4080, 55.6382



66.1053, 49.8183, 98.6016



38.2672, 31.3277, 42.6758



10.3817, 10.1879, 12.7041



17.6457, 8.3571, 34.2397



0.7949, 0.3778, 1.4809



# Inverse Universe

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



35.6279, 30.2720, 28.7777



59.2912, 47.5340, 42.7789



35.2550, 46.4439, 38.9017



10.1184, 10.0960, 10.7141



14.7378, 7.5849, 1.2654



0.6525, 0.3340, 0.1376



# Previews

## White Background



This preview shows how the XYZ color 38.9769, 31.4066, 55.6375 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

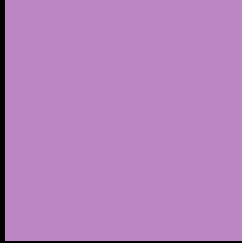
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 38.9769, 31.4066, 55.6375 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

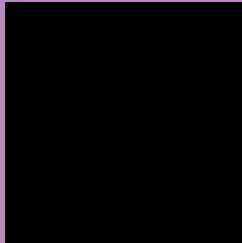
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 38.9769, 31.4066, 55.6375**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.9769, 31.4066, 55.6375.



This preview shows how white text looks on a background with the XYZ color 38.9769, 31.4066,



# 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

38.9769, 31.4066, 55.6375

### Protanopia

32.4449, 31.6010, 64.0641

### Deuteranopia

32.2945, 31.5037, 54.2479



## Tritanopia

34.4838, 31.2618, 33.9224

# Trichromacy



## Original Color

38.9769, 31.4066, 55.6375

## Protanomaly

34.2703, 31.2269, 60.7211

## Deuteranomaly

34.3484, 31.1766, 54.6594

## Tritanomaly

35.9235, 31.1945, 41.1735

# Monochromacy



## Original Color

38.9769, 31.4066, 55.6375

## Achromatopsia

32.0474, 33.7164, 36.7171

## Achromatomaly

34.0890, 32.4449, 42.9939

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.9769, 31.4066, 55.6375 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(188, 133, 195)` looks like.

```
.text, #text, p{  
    color:rgb(188, 133, 195)  
}
```

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(188, 133, 195) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(188, 133, 195) }
```

## Border

The CSS property to change the border of an element to XYZ 38.9769, 31.4066, 55.6375 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(188, 133, 195) }
```



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

```
.border{ border-color:rgb(188, 133, 195) }
```

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

Here you see how a box with a 4 pixel `rgb(188, 133, 195)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(188, 133, 195); -webkit-box-  
shadow:4px 4px 4px 4px rgb(188, 133, 195);  
box-shadow:4px 4px 4px 4px rgb(188, 133,  
195) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.9769, 31.4066, 55.6375 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(188, 133, 195) }
```

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

```
.background{ background-color: rgb(188,  
133, 195) }
```

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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