

# Converting Colors

XYZ(38.7397, 32.6480, 51.8858)

Have a look what the booklet for  
XYZ(38.7397, 32.6480, 51.8858)  
contains.

<b>XYZ(38.8032, 32.6609, 51.8360)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(38.8032, 32.6609,  
51.8360)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BB8BBC
RGB	187, 139, 188
RGB Percent	73%, 55%, 74%
CMY	0.2667, 0.4549, 0.2627
CMYK	0.01, 0.26, 0.00, 0.26
HSL	299°, 27%, 64%
HSV	299°, 26%, 74%
XYZ	38.8032, 32.6609, 51.8360
YIQ	158.9380, 12.8790, 25.4150

# Conversions

## Conversions Part 2

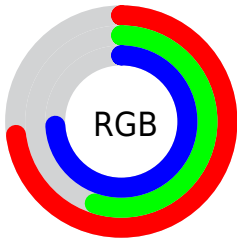
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	187, 139, 188
Decimal	12291004
CIE <sub>Lab</sub>	63.89, 26.59, -18.43
CIE <sub>LCh</sub>	64, 32.351, 325.265
Yxy	32.6609, 0.3147, 0.2649
Android (android.graphics.Color)	4290481084 (0xFFBB8BBC)
YUV	158.9380, 14.3276, 24.6104
Hunter-Lab	57.1497, 21.1849, -13.7725

# Details

The XYZ color **38.8032, 32.6609, 51.8360** is a light color, and the websafe version is hex **CC99CC**. A complement of this color would be **33.4599, 43.4068, 31.0426**, and the grayscale version is **32.8597, 34.5710, 37.6478**.

A 20% lighter version of the original color is **72.7073, 63.9047, 94.0907**, and **17.5358, 13.7153, 24.6447** is the 20% darker color. If you saturate the color by 10%, you get **36.2183, 27.6296, 51.0016**, and if you desaturate by 10%, it is **41.8585, 38.6313, 52.8279**.

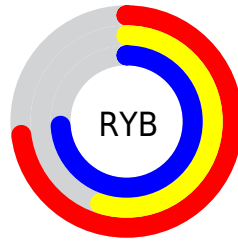
# Distribution



Red (73%)

Green (55%)

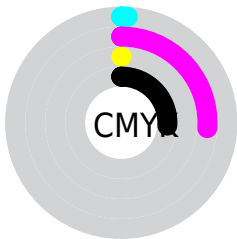
Blue (74%)



Red (73%)

Yellow (55%)

Blue (74%)

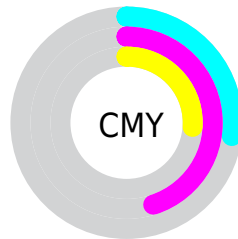


Cyan (1%)

Magenta (26%)

Yellow (0%)

Black (26%)



Cyan (27%)

Magenta (45%)


Yellow (26%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.8032, 32.6609, 51.8360 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 38.8032, 32.6609, 51.8360 by changing the saturation by 10% instead.





 38.8032, 32.6609,  
51.8360


 38.8032, 32.6609,  
51.8360

332.2746,  
314.1190, 410.7421


 26.7867, 21.8668,  
36.4930

 72.6336, 63.8457,  
94.3134

 17.5489, 13.7591,  
24.5225


 95.1782, 85.0053,  
122.2850

 10.7243, 7.9533,  
15.5059


 121.9628,  
110.3888, 155.3032

 5.9477, 4.0651,  
9.0246

153.3529,  
140.3806, 193.7865

 2.8537, 1.7100,  
4.6602

189.7138,  
175.3651, 238.1535

 1.0768, 0.4301,  
1.9941

231.4108,

 0.0056, 0.0000,

215.7267, 288.8227

0.5516

278.8093,  
261.8499, 346.2127

■ 0.0000, 0.0000,  
0.0000

■ 38.8032, 32.6609,  
51.8360

■ 38.8032, 32.6609,  
51.8360

■ 36.2183, 27.6296,  
51.0016

■ 41.8585, 38.6313,  
52.8279

■ 34.0767, 23.4853,  
50.3145

■ 45.4034, 45.5812,  
53.9825

■ 32.3535, 20.1773,  
49.7668

■ 49.4596, 53.5534,  
55.3075

■ 31.0198, 17.6480,  
49.3489

■ 54.0469, 62.5873,  
56.8094

■ 30.0433, 15.8325,  
49.0500

■ 59.1837, 72.7200,  
58.4945

■ 29.3862, 14.6556,  
48.8574

■ 64.8879, 83.9869,  
60.3686

■ 29.0004, 14.0209,  
48.7553

■ 65.9942, 86.0577,  
60.7100

■ 28.8837, 13.8415,  
48.7268

■ 66.0900, 86.1071,  
60.7145

■ 66.1860, 86.1566,  
60.7190

# Harmonies

## Analogous

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



34.9294, 32.6609, 63.3781



38.8032, 32.6609, 51.8360



40.6050, 32.6609, 37.6709

# Triad

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



38.8032, 32.6609, 51.8360



31.7710, 32.6609, 15.9787



23.7837, 32.6609, 47.3655

# Complementary

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



38.8032, 32.6609, 51.8360



33.4599, 43.4068, 31.0426

# 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.



23.1143, 32.6609, 33.5336



38.8032, 32.6609, 51.8360



27.4565, 32.6609, 17.3734

# Square

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



38.8032, 32.6609, 51.8360



36.3002, 32.6609, 18.6883



24.3936, 32.6609, 23.1099



26.3199, 32.6609, 60.3860



# Rectangle

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



38.8032, 32.6609, 51.8360



40.2724, 32.6609, 29.3641



24.3936, 32.6609, 23.1099



23.3441, 32.6609, 42.5762

# Sweetspot

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



38.8042, 32.6623, 51.8367



80.8819, 79.8524, 97.3763



29.1969, 28.0633, 51.4554



17.1782, 16.7500, 20.8703



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.



38.8042, 32.6623, 51.8367



67.6715, 54.0230, 93.0870



36.7764, 31.8796, 39.8772



9.9102, 9.6861, 12.0195



19.6735, 9.4281, 33.1758



0.7768, 0.3725, 1.2998



# Inverse Universe

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



34.7065, 31.0516, 28.9769



59.0574, 50.6395, 44.9208



35.1416, 44.0602, 40.7739



9.5379, 9.5394, 9.9553



14.1379, 7.2863, 0.7539



0.5565, 0.2865, 0.0439



# Previews

## White Background



This preview shows how the XYZ color 38.8032, 32.6609, 51.8360 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

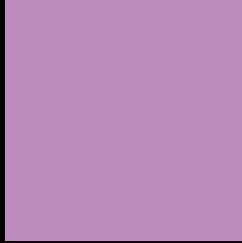
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 38.8032, 32.6609, 51.8360 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 38.8032, 32.6609, 51.8360**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.8032, 32.6609, 51.8360.



This preview shows how white text looks on a background with the XYZ color 38.8032, 32.6609,



# 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

38.8032, 32.6609, 51.8360

### Protanopia

33.0859, 32.7890, 58.0112

### Deuteranopia

33.6087, 32.9702, 51.0469



## Tritanopia

35.6546, 32.7184, 35.8886

# Trichromacy



**Original Color**

38.8032, 32.6609, 51.8360

**Protanomaly**

34.8247, 32.5484, 55.4860

**Deuteranomaly**

35.3397, 32.6708, 51.4572

**Tritanomaly**

36.6575, 32.6624, 41.4182

# Monochromacy



**Original Color**

38.8032, 32.6609, 51.8360

**Achromatopsia**

32.9542, 34.6704, 37.7561

**Achromatomaly**

34.8461, 33.7938, 42.7165

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.8032, 32.6609, 51.8360 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(187, 139, 188)` looks like.

```
.text, #text, p{  
    color:rgb(187, 139, 188)  
}
```

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(187, 139, 188) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(187, 139, 188) }
```

## Border

The CSS property to change the border of an element to XYZ 38.8032, 32.6609, 51.8360 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(187, 139, 188) }
```



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

```
.border{ border-color:rgb(187, 139, 188) }
```

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

Here you see how a box with a 4 pixel `rgb(187, 139, 188)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(187, 139, 188); -webkit-box-  
shadow:4px 4px 4px 4px rgb(187, 139, 188);  
box-shadow:4px 4px 4px 4px rgb(187, 139,  
188) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.8032, 32.6609, 51.8360 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(187, 139, 188) }
```

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

```
.background{ background-color: rgb(187,  
139, 188) }
```

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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