

# Converting Colors

XYZ(38.9716, 40.1271, 38.0397)

Have a look what the booklet for  
XYZ(38.9716, 40.1271, 38.0397)  
contains.

<b>XYZ(38.9966, 40.1772, 38.0474)</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(38.9966, 40.1772,  
38.0474)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B4A89E
RGB	180, 168, 158
RGB Percent	71%, 66%, 62%
CMY	0.2941, 0.3412, 0.3804
CMYK	0.00, 0.07, 0.12, 0.29
HSL	27°, 13%, 66%
HSV	27°, 12%, 71%
XYZ	38.9966, 40.1772, 38.0474
YIQ	170.4480, 10.3620, -0.5660

# Conversions

## Conversions Part 2

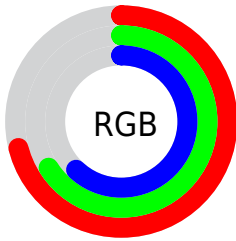
<b>Format</b>	<b>Color</b>
<b>RYB</b>	180, 176, 158
Decimal	11839646
CIELab	69.60, 2.59, 6.71
CIELCh	70, 7.191, 68.902
Yxy	40.1772, 0.3327, 0.3427
Android (android.graphics.Color)	4290029726 (0xFFB4A89E)
YUV	170.4480, -6.1369, 8.3771
Hunter-Lab	63.3855, -1.1062, 8.7808

# Details

The XYZ color **38.9966, 40.1772, 38.0474** is a light color, and the websafe version is hex **999999**. A complement of this color would be **36.7134, 39.3131, 48.8336**, and the grayscale version is **38.4591, 40.4620, 44.0631**.

A 20% lighter version of the original color is **72.9900, 75.4123, 73.6598**, and **17.6516, 18.0643, 16.4663** is the 20% darker color. If you saturate the color by 10%, you get **35.8154, 36.1151, 29.8947**, and if you desaturate by 10%, it is **42.5438, 44.6072, 47.4428**.

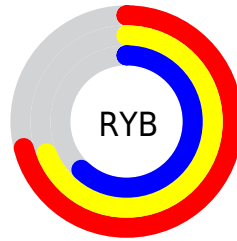
# Distribution



Red (71%)

Green (66%)

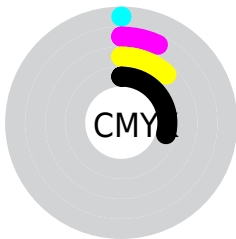
Blue (62%)



Red (71%)

Yellow (69%)

Blue (62%)

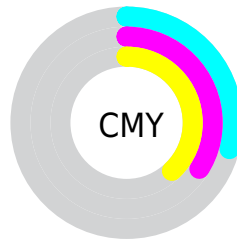


Cyan (0%)

Magenta (7%)

Yellow (12%)

Black (29%)



Cyan (29%)

Magenta (34%)


Yellow (38%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.9966, 40.1772, 38.0474 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 38.9966, 40.1772, 38.0474 by changing the saturation by 10% instead.





 38.9966, 40.1772,  
38.0474


 38.9966, 40.1772,  
38.0474


333.0834,  
346.8699, 353.1275

 26.9378, 27.6767,  
25.7174


 72.9272, 75.4333,  
73.3850

 17.6629, 18.0821,  
16.3884


 95.5298, 98.9577,  
97.2297

 10.8064, 11.0090,  
9.6421


122.3776,  
126.9255, 125.7496

 6.0032, 6.0729,  
5.0598

153.8360,  
159.7211, 159.3634

 2.8877, 2.8894,  
2.2231

190.2705,  
197.7290, 198.4895

 1.0946, 1.0743,  
0.6876

232.0463,

 0.0206, 0.0000,

241.3335, 243.5466

0.0000

279.5289,  
290.9190, 294.9531

■ 0.0000, 0.0000,  
0.0000

■ 38.9966, 40.1772,  
38.0474

■ 38.9966, 40.1772,  
38.0474

■ 35.8154, 36.1151,  
29.8947

■ 42.5438, 44.6072,  
47.4428

■ 32.9841, 32.4058,  
22.9292

■ 46.4658, 49.4093,  
58.1277

■ 30.4901, 29.0404,  
17.0953

■ 50.7752, 54.5945,  
70.1500

■ 28.3187, 26.0081,  
12.3318

■ 55.4831, 60.1714,  
83.5541

■ 26.4542, 23.2971,  
8.5715

■ 60.6000, 66.1487,  
98.3823

■ 24.8789, 20.8948,  
5.7395

■ 64.3135, 71.8053,  
105.0779

■ 23.5733, 18.7876,  
3.7505

■ 67.0736, 77.3255,  
105.9979

■ 22.5144, 16.9602,  
2.5025

■ 69.9892, 83.1567,  
106.9698

■ 21.8283, 15.7148,  
1.8828

■ 72.6326, 88.4434,  
107.8509

# Harmonies

## Analogous

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



39.9513, 40.1772, 39.8521



38.9966, 40.1772, 38.0474



37.8428, 40.1772, 37.7279

# Triad

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



38.9966, 40.1772, 38.0474



36.0235, 40.1772, 44.7431



39.6066, 40.1772, 48.9136

# Complementary

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



38.9966, 40.1772, 38.0474



36.7134, 39.3131, 48.8336

# 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.



38.5338, 40.1772, 50.3726



38.9966, 40.1772, 38.0474



36.4759, 40.1772, 47.8859

# Square

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



38.9966, 40.1772, 38.0474



36.1418, 40.1772, 41.4845



37.3891, 40.1772, 49.9873



40.3084, 40.1772, 46.0886



# Rectangle

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



38.9966, 40.1772, 38.0474



37.1182, 40.1772, 38.3835



37.3891, 40.1772, 49.9873



39.2765, 40.1772, 49.5864

# Sweetspot

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



38.9977, 40.1790, 38.0483



75.9022, 79.3484, 82.7041



38.3149, 37.0637, 43.2149



16.2986, 17.0176, 17.5905



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787



# Same Dimension

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



38.9977, 40.1790, 38.0483



68.8907, 70.5471, 64.2688



41.0945, 44.3725, 38.7472



8.8040, 9.1205, 8.9489



15.3002, 11.0989, 1.3359



0.5400, 0.4663, 0.0615



# Inverse Universe

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



36.7134, 39.3131, 48.8336



63.8268, 68.6274, 88.1770



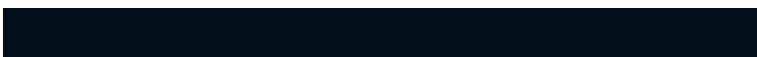
34.7547, 35.3957, 48.1807



8.4131, 8.9724, 10.7948



8.8761, 8.5526, 31.3200

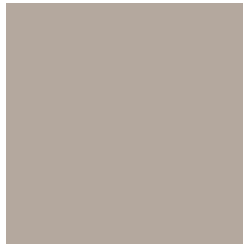


0.3367, 0.3839, 1.0046



# Previews

## White Background



This preview shows how the XYZ color 38.9966, 40.1772, 38.0474 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

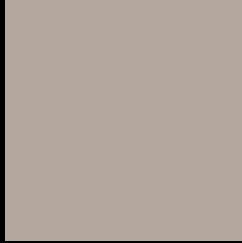
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 38.9966, 40.1772, 38.0474 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 38.9966, 40.1772, 38.0474**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.9966, 40.1772, 38.0474.



This preview shows how white text looks on a background with the XYZ color 38.9966, 40.1772,



# 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

38.9966, 40.1772, 38.0474

### Protanopia

38.3505, 40.1092, 38.5215

### Deuteranopia

41.0193, 40.1305, 38.3849



## Tritanopia

41.0195, 40.1919, 47.7153

# Trichromacy



## Original Color

38.9966, 40.1772, 38.0474

## Protanomaly

38.5774, 40.2262, 38.5321

## Deuteranomaly

40.2067, 39.9783, 38.3983

## Tritanomaly

40.2783, 40.1578, 44.1564

# Monochromacy



## Original Color

38.9966, 40.1772, 38.0474

## Achromatopsia

38.2080, 40.1978, 43.7754

## Achromatomaly

38.5265, 40.1278, 41.7913

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.9966, 40.1772, 38.0474 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(180, 168, 158)` looks like.

```
.text, #text, p{  
    color:rgb(180, 168, 158)  
}
```

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(180, 168, 158) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 168, 158) }
```

## Border

The CSS property to change the border of an element to XYZ 38.9966, 40.1772, 38.0474 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(180, 168, 158) }
```



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

```
.border{ border-color:rgb(180, 168, 158) }
```

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

Here you see how a box with a 4 pixel `rgb(180, 168, 158)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 168, 158); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 168, 158);  
box-shadow:4px 4px 4px 4px rgb(180, 168,  
158) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.9966, 40.1772, 38.0474 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 168, 158) }
```

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

```
.background{ background-color: rgb(180,  
168, 158) }
```

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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