

# Converting Colors

XYZ(38.2457, 33.4842, 59.9952)

Have a look what the booklet for  
XYZ(38.2457, 33.4842, 59.9952)  
contains.

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# Color

**XYZ(38.1236, 33.4665,  
59.7087)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	AE91C9
RGB	174, 145, 201
RGB Percent	68%, 57%, 79%
CMY	0.3176, 0.4314, 0.2118
CMYK	0.13, 0.28, 0.00, 0.21
HSL	271°, 34%, 68%
HSV	271°, 28%, 79%
XYZ	38.1236, 33.4665, 59.7087
YIQ	160.0550, -0.6920, 23.5640

# Conversions

## Conversions Part 2

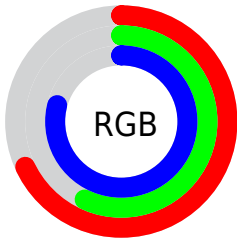
<b>Format</b>	<b>Color</b>
<b>RYB</b>	174, 145, 201
Decimal	11440585
CIELab	64.54, 21.60, -24.85
CIELCh	65, 32.922, 311.002
Yxy	33.4665, 0.2904, 0.2549
Android (android.graphics.Color)	4289630665 (0xFFAE91C9)
YUV	160.0550, 20.1859, 12.2298
Hunter-Lab	57.8502, 16.3945, -20.6995

# Details

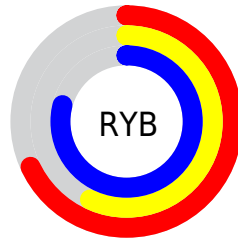
The XYZ color **38.1236, 33.4665, 59.7087** is a light color, and the websafe version is hex **CC99CC**. A complement of this color would be **43.0118, 52.5891, 34.6733**, and the grayscale version is **33.3500, 35.0868, 38.2095**.

A 20% lighter version of the original color is **71.1066, 64.8898, 103.3850**, and **17.1543, 14.1769, 29.4361** is the 20% darker color. If you saturate the color by 10%, you get **33.2382, 26.7855, 58.6772**, and if you desaturate by 10%, it is **43.7103, 41.3173, 60.9301**.

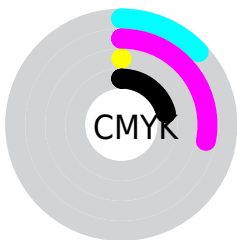
# Distribution



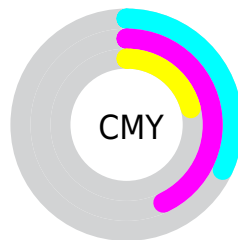
- Red (68%)
- Green (57%)
- Blue (79%)



- Red (68%)
- Yellow (57%)
- Blue (79%)



- Cyan (13%)
- Magenta (28%)
- Yellow (0%)
- Black (21%)




- Cyan (32%)
- Magenta (43%)
- Yellow (21%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.1236, 33.4665, 59.7087 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 38.1236, 33.4665, 59.7087 by changing the saturation by 10% instead.





 38.1236, 33.4665,  
59.7087


 38.1236, 33.4665,  
59.7087

329.4216,  
317.7466, 441.2980

 26.2563, 22.4841,  
42.7601


 71.6002, 65.1032,  
105.9462

 17.1492, 14.2130,  
29.3669


 93.9402, 86.5262,  
136.0722

 10.4369, 8.2690,  
19.1106


120.5019,  
112.1982, 171.4278

 5.7540, 4.2675,  
11.5726

151.6505,  
142.5035, 212.4315

 2.7353, 1.8243,  
6.3344

187.7514,  
177.8267, 259.5018

 1.0154, 0.5023,  
2.9774

229.1700,

 0.0000, 0.0000,

218.5520, 313.0573

1.0831

276.2716,  
265.0638, 373.5165

■ 0.0000, 0.0000,  
0.0000

■ 38.1236, 33.4665,  
59.7087

■ 38.1236, 33.4665,  
59.7087

■ 33.2382, 26.7855,  
58.6772

■ 43.7103, 41.3173,  
60.9301

■ 29.0190, 21.2112,  
57.8236

■ 50.0248, 50.3884,  
62.3482

■ 25.4324, 16.6807,  
57.1382

■ 57.0960, 60.7324,  
63.9721

■ 22.4402, 13.1229,  
56.6091

■ 64.9502, 72.3975,  
65.8097

■ 19.9997, 10.4574,  
56.2233

■ 73.6125, 85.4293,  
67.8686

18.0609, 8.5902,  
55.9650

79.6298, 92.9178,  
68.9969

16.5528, 7.3847,  
55.8118

82.8658, 94.5861,  
69.1483

16.2620, 7.1655,  
55.7849

86.2781, 96.3451,  
69.3080

87.5427, 96.9971,  
69.3672

# Harmonies

## Analogous

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



33.5675, 33.4665, 68.2625



38.1236, 33.4665, 59.7087



41.1563, 33.4665, 45.5449

# Triad

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



38.1236, 33.4665, 59.7087



34.8469, 33.4665, 17.0158



23.7265, 33.4665, 41.6128

# Complementary

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



38.1236, 33.4665, 59.7087



43.0118, 52.5891, 34.6733

# 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.



23.9962, 33.4665, 28.6363



38.1236, 33.4665, 59.7087



30.1129, 33.4665, 16.4590

# Square

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



38.1236, 33.4665, 59.7087



39.1394, 33.4665, 21.9425



26.2331, 33.4665, 20.1700



25.4561, 33.4665, 56.2265



# Rectangle

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



38.1236, 33.4665, 59.7087



41.7427, 33.4665, 35.9881



26.2331, 33.4665, 20.1700



23.5911, 33.4665, 36.8943

# Sweetspot

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



38.1247, 33.4679, 59.7094



85.3574, 85.8499, 106.6796



36.9861, 39.7685, 60.9856



17.9004, 17.8404, 22.7500



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.



38.1247, 33.4679, 59.7094



60.4411, 50.6497, 101.1985



44.6468, 36.8428, 59.4432



10.5718, 10.5530, 13.3972



10.3311, 4.5601, 35.0800



0.5725, 0.2589, 1.6649



# Inverse Universe

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



41.6602, 35.6482, 43.7160



67.5855, 55.0536, 68.9704



37.7479, 49.8671, 34.8042



10.8433, 10.7207, 12.1582



16.5451, 8.3676, 8.0805



0.8200, 0.4108, 0.5752



# Previews

## White Background



This preview shows how the XYZ color 38.1236, 33.4665, 59.7087 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

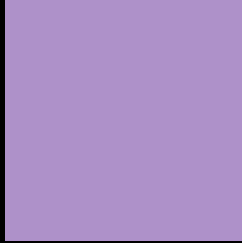
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 38.1236, 33.4665, 59.7087 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

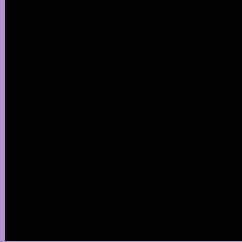
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 38.1236, 33.4665, 59.7087**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.1236, 33.4665, 59.7087.



This preview shows how white text looks on a background with the XYZ color 38.1236, 33.4665,



# 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

38.1236, 33.4665, 59.7087

### Protanopia

34.2618, 33.7475, 64.3826

### Deuteranopia

34.4421, 33.7188, 58.7259



## Tritanopia

34.0775, 33.4616, 39.7846

# Trichromacy



## Original Color

38.1236, 33.4665, 59.7087

## Protanomaly

35.4125, 33.4110, 62.3401

## Deuteranomaly

35.7900, 33.6743, 59.2570

## Tritanomaly

35.2608, 33.2153, 46.1477

# Monochromacy



## Original Color

38.1236, 33.4665, 59.7087

## Achromatopsia

33.4132, 35.1533, 38.2819

## Achromatomaly

34.9763, 34.5372, 45.3803

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.1236, 33.4665, 59.7087 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(174, 145, 201)` looks like.

```
.text, #text, p{  
    color:rgb(174, 145, 201)  
}
```

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(174, 145, 201) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(174, 145, 201) }
```

## Border

The CSS property to change the border of an element to XYZ 38.1236, 33.4665, 59.7087 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(174, 145, 201) }
```



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

```
.border{ border-color:rgb(174, 145, 201) }
```

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

Here you see how a box with a 4 pixel rgb(174, 145, 201) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(174, 145, 201); -webkit-box-  
shadow:4px 4px 4px 4px rgb(174, 145, 201);  
box-shadow:4px 4px 4px 4px rgb(174, 145,  
201) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.1236, 33.4665, 59.7087 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(174, 145, 201) }
```

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

```
.background{ background-color: rgb(174,  
145, 201) }
```

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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