

# Converting Colors

XYZ(39.8787, 33.2817, 68.6130)

Have a look what the booklet for  
XYZ(39.8787, 33.2817, 68.6130)  
contains.

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# Color

**XYZ(39.9221, 33.3032,  
68.6140)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B18DD7
RGB	177, 141, 215
RGB Percent	69%, 55%, 84%
CMY	0.3059, 0.4470, 0.1569
CMYK	0.18, 0.34, 0.00, 0.16
HSL	269°, 48%, 70%
HSV	269°, 34%, 84%
XYZ	39.9221, 33.3032, 68.6140
YIQ	160.2000, -2.2980, 30.6460

# Conversions

## Conversions Part 2

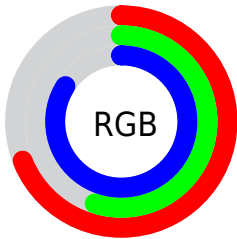
Format	Color
<a href="#">RYB</a>	<a href="#">177, 141, 215</a>
Decimal	<a href="#">11636183</a>
CIELab	<a href="#">64.41, 27.87, -32.84</a>
CIElCh	<a href="#">64, 43.073, 310.328</a>
Yxy	<a href="#">33.3032, 0.2815, 0.2348</a>
Android (android.graphics.Color)	<a href="#">4289826263 (0xFFB18DD7)</a>
YUV	<a href="#">160.2000, 27.0164, 14.7336</a>
Hunter-Lab	<a href="#">57.7089, 22.4928, -30.0976</a>

# Details

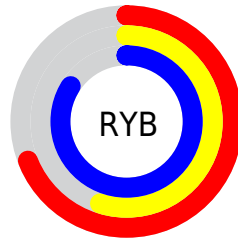
The XYZ color **39.9221, 33.3032, 68.6140** is a light color, and the websafe version is hex **CC99CC**. A complement of this color would be **47.6996, 60.1085, 34.2888**, and the grayscale version is **33.3869, 35.1256, 38.2518**.

A 20% lighter version of the original color is **71.4968, 63.7426, 103.1430**, and **18.1697, 14.0613, 35.0142** is the 20% darker color. If you saturate the color by 10%, you get **34.6406, 26.3230, 67.5456**, and if you desaturate by 10%, it is **46.0247, 41.6217, 69.8985**.

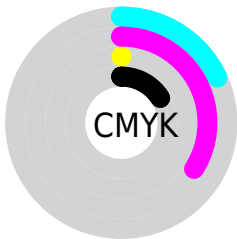
# Distribution



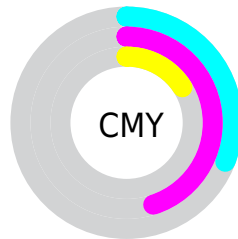
- Red (69%)
- Green (55%)
- Blue (84%)



- Red (69%)
- Yellow (55%)
- Blue (84%)



- Cyan (18%)
- Magenta (34%)
- Yellow (0%)
- Black (16%)




- Cyan (31%)
- Magenta (45%)
- Yellow (16%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 39.9221, 33.3032, 68.6140 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 39.9221, 33.3032, 68.6140 by changing the saturation by 10% instead.





 39.9221, 33.3032,  
68.6140


 39.9221, 33.3032,  
68.6140


336.9352,  
317.0138, 474.3254


 27.6618, 22.3588,  
49.9276


 74.3300, 64.8486,  
118.8926

 18.2100, 14.1208,  
34.9851


 97.2082, 86.2184,  
151.3219

 11.2015, 8.2047,  
23.3679


 124.3564,  
111.8322, 189.1692

 6.2708, 4.2262,  
14.6576

156.1400,  
142.0743, 232.8531

 3.0526, 1.8009,  
8.4355

192.9244,  
177.3291, 282.7921

 1.1817, 0.4877,  
4.2831

235.0748,

 0.0918, 0.0000,

217.9810, 339.4048

1.7819

282.9566,  
264.4144, 403.1097

■ 0.0000, 0.0000,  
0.4160

■ 0.0000, 0.0000,  
0.0000

■ 39.9221, 33.3032,  
68.6140

■ 39.9221, 33.3032,  
68.6140

■ 34.6406, 26.3230,  
67.5456

■ 46.0247, 41.6217,  
69.8985

■ 30.1363, 20.6031,  
66.6790

■ 52.9825, 51.3425,  
71.4081

■ 26.3658, 16.0634,  
66.0014

■ 60.8316, 62.5303,  
73.1539

■ 23.2798, 12.6126,  
65.4980

■ 69.6050, 75.2447,  
75.1456

20.8214, 10.1451,  
65.1513

79.3338, 89.5417,  
77.3925

18.9226, 8.5332,  
64.9403

85.0729, 95.5248,  
78.2448

18.0440, 7.8851,  
64.8615

89.0038, 97.5513,  
78.4288

89.2658, 97.6863,  
78.4410

# Harmonies

## Analogous

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



33.8170, 33.3032, 80.7131



39.9221, 33.3032, 68.6140



44.1179, 33.3032, 48.8714

# Triad

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



39.9221, 33.3032, 68.6140



35.7952, 33.3032, 12.8381



21.4048, 33.3032, 42.6648

# Complementary

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



39.9221, 33.3032, 68.6140



47.6996, 60.1085, 34.2888

# 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.



21.7905, 33.3032, 26.0319



39.9221, 33.3032, 68.6140



29.5847, 33.3032, 12.1380

# Square

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



39.9221, 33.3032, 68.6140



41.5302, 33.3032, 18.4913



24.6139, 33.3032, 16.1157



23.4820, 33.3032, 62.8282



# Rectangle

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



39.9221, 33.3032, 68.6140



44.9828, 33.3032, 36.0685



24.6139, 33.3032, 16.1157



21.2580, 33.3032, 36.4552

# Sweetspot

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



39.9232, 33.3046, 68.6147



82.7933, 82.3962, 106.1481



39.4183, 42.9041, 70.4943



17.3760, 17.1455, 22.6435



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.



39.9232, 33.3046, 68.6147



53.1997, 41.6374, 99.8406



49.4550, 38.2184, 69.0608



12.3119, 12.3022, 15.6632



10.9139, 4.7788, 38.8003



0.7536, 0.3374, 2.3447



# Inverse Universe

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



45.6869, 36.7528, 47.3351



63.1339, 47.5828, 63.0704



40.3047, 56.2962, 33.9427



12.6868, 12.5262, 14.2909



18.5124, 9.3413, 10.0022

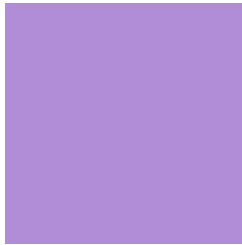


1.1583, 0.5801, 0.8232



# Previews

## White Background



This preview shows how the XYZ color 39.9221, 33.3032, 68.6140 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

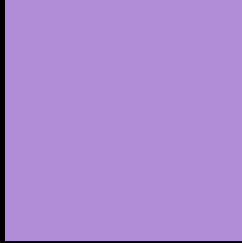
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 39.9221, 33.3032, 68.6140 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

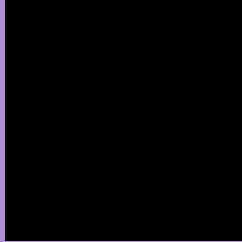
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 39.9221, 33.3032, 68.6140**

## **Background**



This preview shows how black text looks on a background with the XYZ color 39.9221, 33.3032, 68.6140.



This preview shows how white text looks on a background with the XYZ color 39.9221, 33.3032,



# 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

39.9221, 33.3032, 68.6140

### Protanopia

34.8191, 33.5340, 75.8717

### Deuteranopia

34.2545, 33.4401, 66.9365



## Tritanopia

33.8259, 33.1024, 39.2569

# Trichromacy



## Original Color

39.9221, 33.3032, 68.6140

## Protanomaly

36.1930, 33.1049, 72.8889

## Deuteranomaly

35.8946, 33.0713, 67.4423

## Tritanomaly

35.6718, 32.9028, 48.7267

# Monochromacy



## Original Color

39.9221, 33.3032, 68.6140

## Achromatopsia

33.4132, 35.1533, 38.2819

## Achromatomaly

35.3553, 34.1847, 47.9149

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 39.9221, 33.3032, 68.6140 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(177, 141, 215)` looks like.

```
.text, #text, p{  
    color:rgb(177, 141, 215)  
}
```

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(177, 141, 215) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(177, 141, 215) }
```

## Border

The CSS property to change the border of an element to XYZ 39.9221, 33.3032, 68.6140 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(177, 141, 215) }
```



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

```
.border{ border-color:rgb(177, 141, 215) }
```

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

Here you see how a box with a 4 pixel `rgb(177, 141, 215)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(177, 141, 215); -webkit-box-  
shadow:4px 4px 4px 4px rgb(177, 141, 215);  
box-shadow:4px 4px 4px 4px rgb(177, 141,  
215) }
```

# Background

The CSS property to change the background color of an element to XYZ 39.9221, 33.3032, 68.6140 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(177, 141, 215) }
```

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

```
.background{ background-color: rgb(177,  
141, 215) }
```

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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