

# Converting Colors

XYZ(48.4835, 43.0156, 63.0825)

Have a look what the booklet for  
XYZ(48.4835, 43.0156, 63.0825)  
contains.

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# Color

**XYZ(48.4480, 42.8968,  
62.8532)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CBA2CC
RGB	203, 162, 204
RGB Percent	80%, 64%, 80%
CMY	0.2039, 0.3647, 0.2000
CMYK	0.00, 0.21, 0.00, 0.20
HSL	299°, 29%, 72%
HSV	299°, 21%, 80%
XYZ	48.4480, 42.8968, 62.8532
YIQ	179.0470, 10.9540, 21.7540

# Conversions

## Conversions Part 2

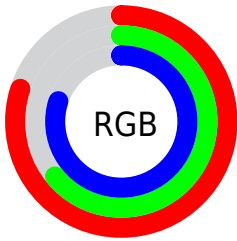
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	203, 162, 204
Decimal	13345484
CIE Lab	71.48, 22.32, -15.69
CIE LCh	71, 27.281, 324.889
Yxy	42.8968, 0.3142, 0.2782
Android (android.graphics.Color)	4291535564 (0xFFCBA2CC)
YUV	179.0470, 12.3018, 21.0068
Hunter-Lab	65.4956, 17.4214, -11.0510

# Details

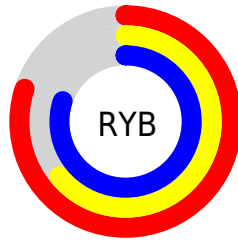
The XYZ color **48.4480, 42.8968, 62.8532** is a light color, and the websafe version is hex **CC99CC**. A complement of this color would be **43.2203, 53.5820, 42.2490**, and the grayscale version is **42.8063, 45.0356, 49.0437**.

A 20% lighter version of the original color is **84.1029, 78.1057, 105.2510**, and **23.2937, 19.6498, 31.4192** is the 20% darker color. If you saturate the color by 10%, you get **45.0104, 36.2168, 61.7456**, and if you desaturate by 10%, it is **52.4716, 50.7466, 64.1569**.

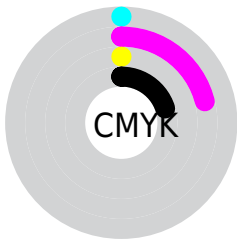
# Distribution



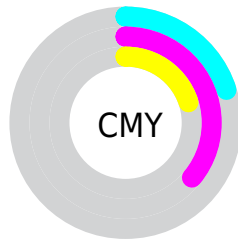
- Red (80%)
- Green (64%)
- Blue (80%)



- Red (80%)
- Yellow (64%)
- Blue (80%)



- Cyan (0%)
- Magenta (21%)
- Yellow (0%)
- Black (20%)




- Cyan (20%)
- Magenta (36%)
- Yellow (20%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.4480, 42.8968, 62.8532 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 48.4480, 42.8968, 62.8532 by changing the saturation by 10% instead.





 48.4480, 42.8968,  
62.8532


 48.4480, 42.8968,  
62.8532


371.1183,  
358.1872, 453.1298

 34.3945, 29.8042,  
45.2822


 87.0767, 79.5551,  
110.5412

 23.3612, 19.6900,  
31.3352


 112.3827,  
103.8895, 141.4954

 14.9826, 12.1699,  
20.5936


142.1702,  
132.7400, 177.7476

 8.8934, 6.8595,  
12.6389

176.8046,  
166.4910, 219.7165

 4.7283, 3.3744,  
7.0526

216.6512,  
205.5268, 267.8207

 2.1218, 1.3302,  
3.4161

262.0755,

 0.7010, 0.1644,

250.2318, 322.4786

1.3108

313.4427,  
300.9905, 384.1088

■ 0.0000, 0.0000,  
0.0706

■ 0.0000, 0.0000,  
0.0000

■ 48.4480, 42.8968,  
62.8532

■ 48.4480, 42.8968,  
62.8532

■ 45.0104, 36.2168,  
61.7456

■ 52.4716, 50.7466,  
64.1569

■ 42.1267, 30.6449,  
60.8221

■ 57.1034, 59.8129,  
65.6628

■ 39.7679, 26.1222,  
60.0735

■ 62.3693, 70.1468,  
67.3799

■ 37.9007, 22.5820,  
59.4886

■ 68.2925, 81.7948,  
69.3160

36.4880, 19.9502,  
59.0551

71.9547, 88.9200,  
70.4983

35.4875, 18.1421,  
58.7588

72.0893, 88.9894,  
70.5046

34.8487, 17.0569,  
58.5830

72.2242, 89.0589,  
70.5109

34.4908, 16.5216,  
58.4985

72.3596, 89.1287,  
70.5172

72.4954, 89.1988,  
70.5236

# Harmonies

## Analogous

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



44.6109, 42.8968, 73.6755



48.4480, 42.8968, 62.8532



50.2366, 42.8968, 49.0019

# Triad

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



48.4480, 42.8968, 62.8532



41.5656, 42.8968, 25.7389



33.2600, 42.8968, 58.2058

# Complementary

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



48.4480, 42.8968, 62.8532



43.2203, 53.5820, 42.2490

# 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.



32.5779, 42.8968, 44.4856



48.4480, 42.8968, 62.8532



37.1601, 42.8968, 27.2831

# Square

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



48.4480, 42.8968, 62.8532



46.0767, 42.8968, 28.8915



33.9531, 42.8968, 33.5943



35.8912, 42.8968, 70.6580



# Rectangle

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



48.4480, 42.8968, 62.8532



49.9362, 42.8968, 40.4935



33.9531, 42.8968, 33.5943



32.8040, 42.8968, 53.5264

# Sweetspot

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



48.4493, 42.8987, 62.8541



90.2280, 90.5547, 107.3310



38.9696, 38.3798, 62.4815



19.2051, 19.1722, 22.9383



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.



48.4493, 42.8987, 62.8541



77.4192, 65.5640, 103.1824



46.5173, 42.1574, 51.2545



11.6601, 11.3896, 14.1542



21.7205, 10.4049, 36.8198



1.1291, 0.5412, 1.8999



# Inverse Universe

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



44.4345, 41.3243, 40.2868



69.5251, 62.4706, 58.7100



44.8969, 54.2291, 52.1421



11.2230, 11.2179, 11.7088



15.6951, 8.0886, 0.8473



0.8136, 0.4188, 0.0641



# Previews

## White Background



This preview shows how the XYZ color 48.4480, 42.8968, 62.8532 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

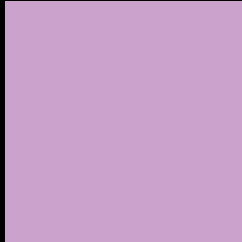
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.4480, 42.8968, 62.8532 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

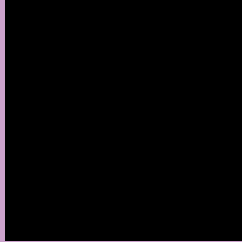
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 48.4480, 42.8968, 62.8532**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.4480, 42.8968, 62.8532.



This preview shows how white text looks on a background with the XYZ color 48.4480, 42.8968,



# 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

48.4480, 42.8968, 62.8532

### Protanopia

42.9561, 43.2411, 68.3697

### Deuteranopia

43.8140, 42.9738, 61.8626



## Tritanopia

45.5923, 42.8065, 48.5073

# Trichromacy



## Original Color

48.4480, 42.8968, 62.8532

## Protanomaly

44.7057, 43.0562, 66.2760

## Deuteranomaly

45.5212, 43.0084, 62.4021

## Tritanomaly

46.6196, 42.9586, 53.4117

# Monochromacy



## Original Color

48.4480, 42.8968, 62.8532

## Achromatopsia

42.8472, 45.0786, 49.0906

## Achromatomaly

44.7597, 44.2093, 53.7511

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.4480, 42.8968, 62.8532 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(203, 162, 204)` looks like.

```
.text, #text, p{  
    color:rgb(203, 162, 204)  
}
```

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(203, 162, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(203, 162, 204) }
```

## Border

The CSS property to change the border of an element to XYZ 48.4480, 42.8968, 62.8532 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(203, 162, 204) }
```



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

```
.border{ border-color:rgb(203, 162, 204) }
```

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

Here you see how a box with a 4 pixel rgb(203, 162, 204) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(203, 162, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(203, 162, 204);  
box-shadow:4px 4px 4px 4px rgb(203, 162,  
204) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.4480, 42.8968, 62.8532 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(203, 162, 204) }
```

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

```
.background{ background-color: rgb(203,  
162, 204) }
```

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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