

# Converting Colors

XYZ(38.1442, 29.2060, 38.0948)

Have a look what the booklet for  
XYZ(38.1442, 29.2060, 38.0948)  
contains.

<b>XYZ(38.1990, 29.2599, 38.2848)</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(38.1990, 29.2599,  
38.2848)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CB7AA3
RGB	203, 122, 163
RGB Percent	80%, 48%, 64%
CMY	0.2039, 0.5215, 0.3608
CMYK	0.00, 0.40, 0.20, 0.20
HSL	330°, 44%, 64%
HSV	330°, 40%, 80%
XYZ	38.1990, 29.2599, 38.2848
YIQ	150.8930, 35.1150, 29.9230

# Conversions

## Conversions Part 2

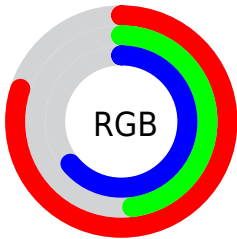
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	203, 122, 163
Decimal	13335203
CIE Lab	61.01, 37.04, -8.39
CIE LCh	61, 37.981, 347.244
Yxy	29.2599, 0.3612, 0.2767
Android (android.graphics.Color)	4291525283 (0xFFCB7AA3)
YUV	150.8930, 5.9688, 45.6978
Hunter-Lab	54.0924, 31.3914, -4.0988

# Details

The XYZ color **38.1990, 29.2599, 38.2848** is a light color, and the websafe version is hex **CC6699**. A complement of this color would be **35.9048, 49.4589, 41.8388**, and the grayscale version is **29.3352, 30.8629, 33.6097**.

A 20% lighter version of the original color is **69.4202, 57.3726, 73.7448**, and **17.1551, 11.8572, 16.4234** is the 20% darker color. If you saturate the color by 10%, you get **35.0990, 24.4406, 32.9940**, and if you desaturate by 10%, it is **41.8926, 35.1517, 44.1254**.

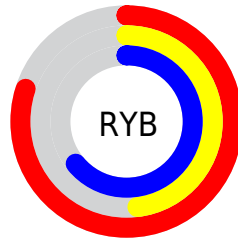
# Distribution



Red (80%)

Green (48%)

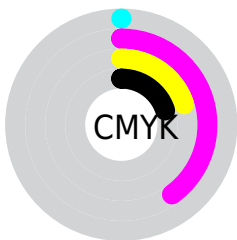
Blue (64%)



Red (80%)

Yellow (48%)

Blue (64%)

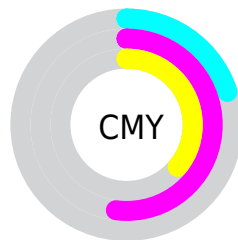


Cyan (0%)

Magenta (40%)

Yellow (20%)

Black (20%)



Cyan (20%)

Magenta (52%)


Yellow (36%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.1990, 29.2599, 38.2848 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 38.1990, 29.2599, 38.2848 by changing the saturation by 10% instead.





 38.1990, 29.2599,  
38.2848


 38.1990, 29.2599,  
38.2848


329.7390,  
298.4393, 354.1749


 26.3151, 19.2775,  
25.9003


 71.7150, 58.4898,  
73.7527

 17.1934, 11.8710,  
16.5239


 94.0778, 78.5060,  
97.6732

 10.4687, 6.6559,  
9.7373


 120.6642,  
102.6357, 126.2760

 5.7754, 3.2478,  
5.1218

151.8397,  
131.2632, 159.9798

 2.7484, 1.2625,  
2.2589

187.9696,  
164.7729, 199.2030

 1.0221, 0.1118,  
0.7081

229.4192,

 0.0000, 0.0000,

203.5493, 244.3642

0.0000

276.5538,  
247.9766, 295.8820

■ 38.1990, 29.2599,  
38.2848

■ 38.1990, 29.2599,  
38.2848

■ 35.0990, 24.4406,  
32.9940

■ 41.8926, 35.1517,  
44.1254

■ 32.5555, 20.6235,  
28.2318

■ 46.2085, 42.1720,  
50.5323

■ 30.5316, 17.7367,  
23.9776


■ 51.1769, 50.3782,  
57.5235


■ 28.9839, 15.6966,  
20.2082


■ 56.8248, 59.8222,  
65.1153


■ 27.8615, 14.4043,  
16.8977


■ 63.1780, 70.5529,  
73.3235


 27.0716, 13.6773,  
14.0056

 70.2607, 82.6168,  
82.1631

 27.0643, 13.6708,  
13.9782

 75.1221, 90.1099,  
90.6572

 76.5970, 90.6999,  
98.4242

 78.1547, 91.3230,  
106.6267

# Harmonies

## Analogous

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



35.4254, 29.2599, 54.2569



38.1990, 29.2599, 38.2848



37.9604, 29.2599, 24.4221

# Triad

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



38.1990, 29.2599, 38.2848



25.0756, 29.2599, 12.2319



21.8203, 29.2599, 56.4449

# Complementary

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



38.1990, 29.2599, 38.2848



35.9048, 49.4589, 41.8388

# 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.



19.6535, 29.2599, 40.6705



38.1990, 29.2599, 38.2848



21.3737, 29.2599, 16.6697

# Square

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



38.1990, 29.2599, 38.2848



29.9721, 29.2599, 11.9415



19.5004, 29.2599, 26.1958



25.7557, 29.2599, 66.6552



# Rectangle

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



38.1990, 29.2599, 38.2848



36.1233, 29.2599, 18.0119



19.5004, 29.2599, 26.1958



20.8824, 29.2599, 51.4353

# Sweetspot

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



38.1999, 29.2613, 38.2854



83.7149, 81.0712, 93.5871



32.4685, 25.8251, 59.7737



17.6762, 16.9513, 19.6940



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.



38.1999, 29.2613, 38.2854



59.3727, 41.8457, 56.3127



35.1863, 28.0559, 22.4164



11.4453, 11.3068, 12.8794



17.2696, 8.7184, 9.1384



0.9292, 0.4651, 0.6731



# Inverse Universe

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



38.1999, 29.2613, 38.2854



59.3727, 41.8457, 56.3127



40.0022, 51.0978, 63.4150



11.4453, 11.3068, 12.8794



17.2696, 8.7184, 9.1384



0.9292, 0.4651, 0.6731



# Previews

## White Background



This preview shows how the XYZ color 38.1990, 29.2599, 38.2848 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

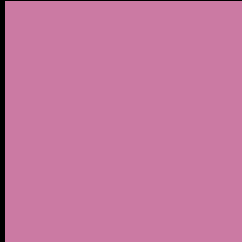
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 38.1990, 29.2599, 38.2848 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

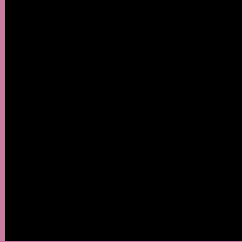
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 38.1990, 29.2599, 38.2848**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.1990, 29.2599, 38.2848.



This preview shows how white text looks on a background with the XYZ color 38.1990, 29.2599,



# 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

38.1990, 29.2599, 38.2848

### Protanopia

29.4001, 29.4752, 46.7875

### Deuteranopia

29.9851, 29.3162, 36.8791



## Tritanopia

35.8527, 29.2357, 27.0460

# Trichromacy



**Original Color**

38.1990, 29.2599, 38.2848

**Protanomaly**

31.7983, 28.8010, 43.4184

**Deuteranomaly**

32.4647, 28.8647, 37.1181

**Tritanomaly**

36.6093, 29.1601, 30.8931

# Monochromacy



**Original Color**

38.1990, 29.2599, 38.2848

**Achromatopsia**

29.4150, 30.9469, 33.7012

**Achromatomaly**

31.8720, 29.6688, 35.0572

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.1990, 29.2599, 38.2848 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, 122, 163)` looks like.

```
.text, #text, p{  
    color:rgb(203, 122, 163)  
}
```

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, 122, 163) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(203, 122, 163) }
```

## Border

The CSS property to change the border of an element to XYZ 38.1990, 29.2599, 38.2848 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, 122, 163) }
```



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

```
.border{ border-color:rgb(203, 122, 163) }
```

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

Here you see how a box with a 4 pixel `rgb(203, 122, 163)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(203, 122, 163); -webkit-box-  
shadow:4px 4px 4px 4px rgb(203, 122, 163);  
box-shadow:4px 4px 4px 4px rgb(203, 122,  
163) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.1990, 29.2599, 38.2848 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(203, 122, 163) }
```

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

```
.background{ background-color: rgb(203,  
122, 163) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor