

# Converting Colors

XYZ(32.8547, 23.1677, 36.7536)

Have a look what the booklet for  
XYZ(32.8547, 23.1677, 36.7536)  
contains.

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# Color

**XYZ(33.0112, 23.3178,  
36.9433)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C066A2
RGB	192, 102, 162
RGB Percent	75%, 40%, 64%
CMY	0.2471, 0.6000, 0.3647
CMYK	0.00, 0.47, 0.16, 0.25
HSL	320°, 42%, 58%
HSV	320°, 47%, 75%
XYZ	33.0112, 23.3178, 36.9433
YIQ	135.7500, 34.3800, 37.7400

# Conversions

## Conversions Part 2

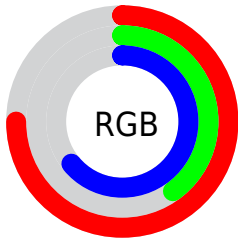
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	192, 102, 162
Decimal	12609186
CIE Lab	55.40, 43.71, -16.39
CIE LCh	55, 46.684, 339.442
Yxy	23.3178, 0.3539, 0.2500
Android (android.graphics.Color)	4290799266 (0xFFC066A2)
YUV	135.7500, 12.9413, 49.3312
Hunter-Lab	48.2885, 37.5221, -11.5581

# Details

The XYZ color **33.0112, 23.3178, 36.9433** is a light color, and the websafe version is hex **CC6699**. A complement of this color would be **28.4950, 42.1908, 28.4734**, and the grayscale version is **23.2531, 24.4641, 26.6414**.

A 20% lighter version of the original color is **63.6701, 48.7764, 71.7047**, and **14.1084, 8.6412, 15.6762** is the 20% darker color. If you saturate the color by 10%, you get **30.7837, 19.7500, 33.4649**, and if you desaturate by 10%, it is **35.7060, 27.7733, 40.7208**.

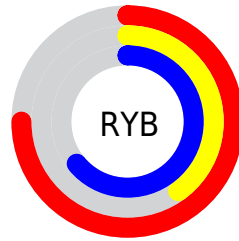
# Distribution



Red (75%)

Green (40%)

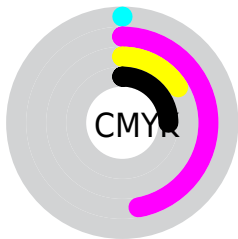
Blue (64%)



Red (75%)

Yellow (40%)

Blue (64%)

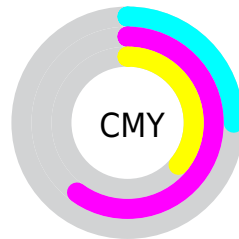


Cyan (0%)

Magenta (47%)

Yellow (16%)

Black (25%)



Cyan (25%)

Magenta (60%)

Yellow (36%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.0112, 23.3178, 36.9433 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 33.0112, 23.3178, 36.9433 by changing the saturation by 10% instead.





 33.0112, 23.3178,  
36.9433


 33.0112, 23.3178,  
36.9433


307.3643,  
269.3531, 348.2263


 22.2943, 14.8283,  
24.8682


 63.7476, 48.9146,  
71.6709


 14.1911, 8.6990,  
15.7607


 84.4978, 66.7908,  
95.1605

 8.3363, 4.5454,  
9.2025


 109.3231, 88.5646,  
123.2919

 4.3645, 1.9831,  
4.7749

 138.5889,  
114.6206, 156.4838

 1.9103, 0.5976,  
2.0594

172.6606,  
145.3430, 195.1546

 0.5828, 0.0000,  
0.5914

211.9035,

 0.0000, 0.0000,

181.1163, 239.7229

0.0000

256.6829,  
222.3249, 290.6073

■ 33.0112, 23.3178,  
36.9433

■ 33.0112, 23.3178,  
36.9433

■ 30.7837, 19.7500,  
33.4649

■ 35.7060, 27.7733,  
40.7208

■ 28.9904, 17.0052,  
30.2719

■ 38.8942, 33.1686,  
44.8074

■ 27.5970, 15.0153,  
27.3508


■ 42.6021, 39.5559,  
49.2143


■ 26.5628, 13.6996,  
24.6858


■ 46.8537, 46.9824,  
53.9514


■ 25.8328, 12.9486,  
22.2564


■ 51.6716, 55.4922,  
59.0280

 25.6345, 12.7650,  
21.5339

 57.0767, 65.1271,  
64.4532

 63.0892, 75.9265,  
70.2355

 69.5345, 87.5410,  
76.3185

 70.3643, 87.8729,  
80.6880

# Harmonies

## Analogous

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



29.2076, 23.3178, 54.8673



33.0112, 23.3178, 36.9433



33.6752, 23.3178, 20.9394

# Triad

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



33.0112, 23.3178, 36.9433



20.5492, 23.3178, 6.2255



15.2507, 23.3178, 48.5157

# Complementary

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



33.0112, 23.3178, 36.9433



28.4950, 42.1908, 28.4734

# 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.



13.6282, 23.3178, 30.4284



33.0112, 23.3178, 36.9433



16.3531, 23.3178, 8.9772

# Square

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



33.0112, 23.3178, 36.9433



25.8967, 23.3178, 6.8102



13.9971, 23.3178, 16.5366



18.8064, 23.3178, 63.1747



# Rectangle

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



33.0112, 23.3178, 36.9433



32.1576, 23.3178, 13.6732



13.9971, 23.3178, 16.5366



14.4887, 23.3178, 42.3983

# Sweetspot

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



33.0119, 23.3189, 36.9438



79.1346, 75.0496, 91.3871



23.7826, 18.2153, 52.1321



16.6334, 15.5032, 19.2145



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

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



33.0119, 23.3189, 36.9438



55.7690, 35.7716, 60.6212



29.7014, 21.9947, 19.5108



10.3499, 10.1886, 11.9333



17.2865, 8.6043, 14.6864



0.7778, 0.3841, 0.7972



# Inverse Universe

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



33.0119, 23.3189, 36.9438



55.7690, 35.7716, 60.6212



32.2658, 43.6991, 48.3299



10.3499, 10.1886, 11.9333



17.2865, 8.6043, 14.6864



0.7778, 0.3841, 0.7972



# Previews

## White Background



This preview shows how the XYZ color 33.0112, 23.3178, 36.9433 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 33.0112, 23.3178, 36.9433 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

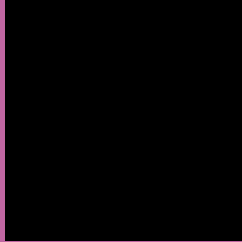
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 33.0112, 23.3178, 36.9433**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.0112, 23.3178, 36.9433.



This preview shows how white text looks on a background with the XYZ color 33.0112, 23.3178,



# 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

33.0112, 23.3178, 36.9433

### Protanopia

24.1348, 23.5030, 48.0642

### Deuteranopia

23.9000, 23.4679, 35.1684



## Tritanopia

29.5077, 23.2656, 20.3882

# Trichromacy



## Original Color

33.0112, 23.3178, 36.9433

## Protanomaly

26.1314, 22.5478, 43.5323

## Deuteranomaly

26.4920, 22.9047, 35.8257

## Tritanomaly

30.7220, 23.2932, 25.7985

# Monochromacy



## Original Color

33.0112, 23.3178, 36.9433

## Achromatopsia

23.4014, 24.6201, 26.8113

## Achromatomaly

26.0288, 23.5276, 29.9575

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.0112, 23.3178, 36.9433 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(192, 102, 162)` looks like.

```
.text, #text, p{  
    color:rgb(192, 102, 162)  
}
```

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(192, 102, 162) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(192, 102, 162) }
```

## Border

The CSS property to change the border of an element to XYZ 33.0112, 23.3178, 36.9433 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(192, 102, 162) }
```



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

```
.border{ border-color:rgb(192, 102, 162) }
```

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

Here you see how a box with a 4 pixel `rgb(192, 102, 162)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(192, 102, 162); -webkit-box-  
shadow:4px 4px 4px 4px rgb(192, 102, 162);  
box-shadow:4px 4px 4px 4px rgb(192, 102,  
162) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.0112, 23.3178, 36.9433 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(192, 102, 162) }
```

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

```
.background{ background-color: rgb(192,  
102, 162) }
```

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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