

# Converting Colors

XYZ(36.9471, 24.6133, 46.0149)

Have a look what the booklet for  
XYZ(36.9471, 24.6133, 46.0149)  
contains.

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# Color

**XYZ(36.9630, 24.5872,  
45.9777)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CA62B4
RGB	202, 98, 180
RGB Percent	79%, 38%, 71%
CMY	0.2078, 0.6157, 0.2941
CMYK	0.00, 0.51, 0.11, 0.21
HSL	313°, 50%, 59%
HSV	313°, 51%, 79%
XYZ	36.9630, 24.5872, 45.9777
YIQ	138.4440, 35.6620, 47.5500

# Conversions

## Conversions Part 2

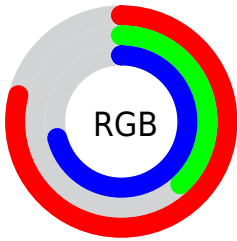
Format	Color
R <sub>Y</sub> B	202, 98, 180
Decimal	13263540
CIE Lab	56.67, 51.72, -24.75
CIE LCh	57, 57.341, 334.427
Yxy	24.5872, 0.3438, 0.2287
Android (android.graphics.Color)	4291453620 (0xFFCA62B4)
YUV	138.4440, 20.4871, 55.7386
Hunter-Lab	49.5855, 46.2864, -20.2663

# Details

The XYZ color **36.9630, 24.5872, 45.9777** is a light color, and the websafe version is hex **CC66CC**. A complement of this color would be **29.5488, 46.1946, 25.1301**, and the grayscale version is **24.2425, 25.5050, 27.7749**.

A 20% lighter version of the original color is **67.6086, 49.7726, 85.4006**, and **16.4085, 9.3534, 21.0192** is the 20% darker color. If you saturate the color by 10%, you get **34.8774, 21.1016, 43.1678**, and if you desaturate by 10%, it is **39.5405, 29.0342, 49.0183**.

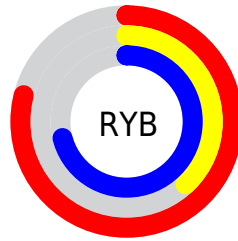
# Distribution



Red (79%)

Green (38%)

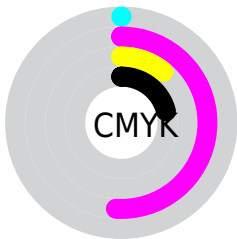
Blue (71%)



Red (79%)

Yellow (38%)

Blue (71%)

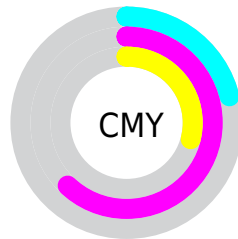


Cyan (0%)

Magenta (51%)

Yellow (11%)

Black (21%)



Cyan (21%)

Magenta (62%)


Yellow (29%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.9630, 24.5872, 45.9777 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 36.9630, 24.5872, 45.9777 by changing the saturation by 10% instead.




 36.9630, 24.5872,  
45.9777


 36.9630, 24.5872,  
45.9777

324.5086,  
275.7759, 386.9940

 25.3524, 15.7698,  
31.8797


 69.8301, 50.9867,  
85.5196


 16.4699, 9.3614,  
21.0056


 91.8173, 69.3377,  
111.8005

 9.9502, 4.9776,  
12.9368


 117.9940, 91.6352,  
142.9794

 5.4280, 2.2342,  
7.2548

 148.7257,  
118.2637, 179.4750

 2.5378, 0.7385,  
3.5411

184.3776,  
149.6077, 221.7057

 0.9144, 0.0000,  
1.3771

225.3152,

 0.0000, 0.0000,

186.0514, 270.0901

0.1238

271.9037,  
227.9793, 325.0466

■ 0.0000, 0.0000,  
0.0000

■ 36.9630, 24.5872,  
45.9777

■ 36.9630, 24.5872,  
45.9777

■ 34.8774, 21.1016,  
43.1678

■ 39.5405, 29.0342,  
49.0183

■ 33.2446, 18.5007,  
40.5742

■ 42.6403, 34.5047,  
52.2995

■ 32.0233, 16.7019,  
38.1829

■ 46.2934, 41.0598,  
55.8326

■ 31.1635, 15.6050,  
35.9764

■ 50.5273, 48.7546,  
59.6272

■ 30.6386, 15.0692,  
34.2166

■ 55.3679, 57.6405,  
63.6926

■ 60.8395, 67.7660,  
68.0373

■ 66.9649, 79.1765,  
72.6696

■ 72.2788, 88.9413,  
77.1015

■ 72.8326, 89.1628,  
80.0174

# Harmonies

## Analogous

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



31.4021, 24.5872, 69.9736



36.9630, 24.5872, 45.9777



38.6426, 24.5872, 24.0330

# Triad

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



36.9630, 24.5872, 45.9777



22.3926, 24.5872, 4.3031



14.3013, 24.5872, 53.3917

# Complementary

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



36.9630, 24.5872, 45.9777



29.5488, 46.1946, 25.1301

# 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.



12.7670, 24.5872, 29.7100



36.9630, 24.5872, 45.9777



16.8386, 24.5872, 6.4582

# Square

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



36.9630, 24.5872, 45.9777



29.3586, 24.5872, 5.4199



13.5991, 24.5872, 13.8334



18.2557, 24.5872, 75.4966



# Rectangle

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



36.9630, 24.5872, 45.9777



37.1104, 24.5872, 14.2666



13.5991, 24.5872, 13.8334



13.5236, 24.5872, 45.0292

# Sweetspot

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



36.9638, 24.5884, 45.9782



82.7628, 77.4667, 98.5120



22.6099, 16.9088, 57.9496



17.3859, 15.9834, 20.7913



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.



36.9638, 24.5884, 45.9782



58.6306, 35.0410, 72.4678



32.7015, 22.8834, 23.5334



11.5819, 11.3615, 13.5991



19.7490, 9.7102, 22.1946



1.0449, 0.5114, 1.2826



# Inverse Universe

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



36.9638, 24.5884, 45.9782



58.6306, 35.0410, 72.4678



33.4901, 47.7711, 45.8849



11.5819, 11.3615, 13.5991



19.7490, 9.7102, 22.1946



1.0449, 0.5114, 1.2826



# Previews

## White Background



This preview shows how the XYZ color 36.9630, 24.5872, 45.9777 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

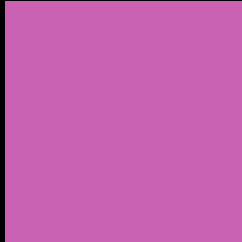
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 36.9630, 24.5872, 45.9777 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

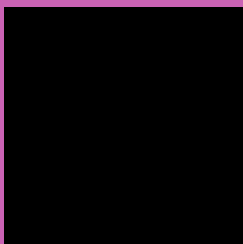
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 36.9630, 24.5872, 45.9777**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.9630, 24.5872, 45.9777.



This preview shows how white text looks on a background with the XYZ color 36.9630, 24.5872,

45.9777.

# 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

36.9630, 24.5872, 45.9777

### Protanopia

26.3407, 24.9193, 63.0961

### Deuteranopia

25.3710, 24.8520, 43.5041



## Tritanopia

31.6900, 24.5465, 20.8370

# Trichromacy



## Original Color

36.9630, 24.5872, 45.9777



## Protanomaly

28.3581, 23.5916, 56.4851



## Deuteranomaly

28.3841, 23.8773, 44.1871



## Tritanomaly

33.4289, 24.4742, 28.5533

# Monochromacy



## Original Color

36.9630, 24.5872, 45.9777



## Achromatopsia

24.1572, 25.4152, 27.6772



## Achromatomaly

27.5307, 24.0429, 33.3267

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.9630, 24.5872, 45.9777 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(202, 98, 180)` looks like.

```
.text, #text, p{  
    color:rgb(202, 98, 180)  
}
```

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(202, 98, 180) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(202, 98, 180) }
```

## Border

The CSS property to change the border of an element to XYZ 36.9630, 24.5872, 45.9777 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(202, 98, 180) }
```



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

```
.border{ border-color:rgb(202, 98, 180) }
```

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

Here you see how a box with a 4 pixel rgb(202, 98, 180) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(202, 98, 180); -webkit-box-  
shadow:4px 4px 4px 4px rgb(202, 98, 180);  
box-shadow:4px 4px 4px 4px rgb(202, 98,  
180) }
```

# Background

The CSS property to change the background color of an element to XYZ 36.9630, 24.5872, 45.9777 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(202, 98, 180) }
```

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

```
.background{ background-color: rgb(202, 98,  
180) }
```

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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