

# Converting Colors

XYZ(48.1749, 28.4782, 72.7703)

Have a look what the booklet for  
XYZ(48.1749, 28.4782, 72.7703)  
contains.

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# Color

**XYZ(48.1730, 28.4759,  
72.7694)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E258DF
RGB	226, 88, 223
RGB Percent	89%, 35%, 87%
CMY	0.1137, 0.6549, 0.1255
CMYK	0.00, 0.61, 0.01, 0.11
HSL	301°, 70%, 62%
HSV	301°, 61%, 89%
XYZ	48.1730, 28.4759, 72.7694
YIQ	144.6520, 38.9130, 71.2410

# Conversions

## Conversions Part 2

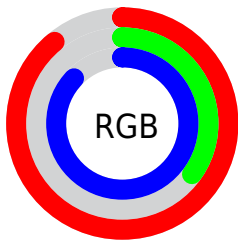
Format	Color
R <sub>Y</sub> B	226, 88, 223
Decimal	14833887
CIE Lab	60.32, 69.70, -43.28
CIE LCh	60, 82.045, 328.161
Yxy	28.4759, 0.3224, 0.1906
Android (android.graphics.Color)	4293023967 (0xFFE258DF)
YUV	144.6520, 38.6256, 71.3422
Hunter-Lab	53.3628, 67.7550, -43.4982

# Details

The XYZ color **48.1730, 28.4759, 72.7694** is a light color, and the websafe version is hex **CC33CC**. The color can be described as light muted magenta. A complement of this color would be **33.1105, 57.2239, 19.1994**, and the grayscale version is **26.6114, 27.9972, 30.4890**.

A 20% lighter version of the original color is **69.5689, 49.0378, 100.4063**, and **23.1118, 11.4064, 37.5427** is the 20% darker color. If you saturate the color by 10%, you get **46.5313, 25.2976, 71.8959**, and if you desaturate by 10%, it is **50.3918, 32.8065, 73.8366**.

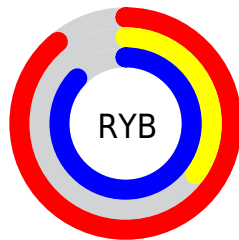
# Distribution



Red (89%)

Green (35%)

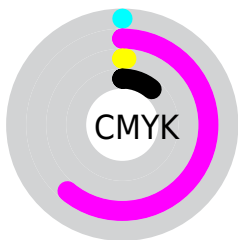
Blue (87%)



Red (89%)

Yellow (35%)

Blue (87%)

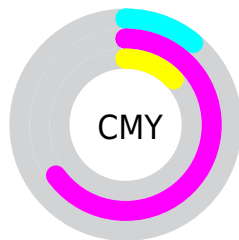


Cyan (0%)

Magenta (61%)

Yellow (1%)

Black (11%)



Cyan (11%)

Magenta (65%)


Yellow (13%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.1730, 28.4759, 72.7694 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 48.1730, 28.4759, 72.7694 by changing the saturation by 10% instead.





 48.1730, 28.4759,  
72.7694

 48.1730, 28.4759,  
72.7694

370.0486,  
294.7340, 489.2645


 34.1757, 18.6847,  
53.2968


 86.6701, 57.2433,  
124.8677


 23.1922, 11.4427,  
37.6504


 111.9006, 76.9884,  
158.3304

 14.8569, 6.3654,  
25.4117


 141.6062,  
100.8202, 197.2935

 8.8047, 3.0685,  
16.1623

 176.1523,  
129.1231, 242.1756

 4.6701, 1.1676,  
9.4834

215.9042,  
162.2815, 293.3952

 2.0878, 0.0350,  
4.9567

261.2274,

 0.6826, 0.0000,

200.6799, 351.3709

2.1636

312.4871,  
244.7026, 416.5211

■ 0.0000, 0.0000,  
0.6533

■ 0.0000, 0.0000,  
0.0000

■ 48.1730, 28.4759,  
72.7694

■ 48.1730, 28.4759,  
72.7694

■ 46.5313, 25.2976,  
71.8959

■ 50.3918, 32.8065,  
73.8366

■ 45.4085, 23.1575,  
71.1961


■ 53.2326, 38.3816,  
75.1119


■ 44.7396, 21.9251,  
70.6486


■ 56.7396, 45.2887,  
76.6102


■ 44.4271, 21.3940,  
70.2551


■ 60.9519, 53.6063,  
78.3446

 65.9059, 63.4068,  
80.3272

 71.6351, 74.7576,  
82.5691

 78.1713, 87.7219,  
85.0809

 80.9802, 93.2313,  
86.3513

 81.0481, 93.2584,  
86.7090

# Harmonies

## Analogous

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



37.7927, 28.4759, 115.3992



48.1730, 28.4759, 72.7694



52.7720, 28.4759, 32.9037

# Triad

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



48.1730, 28.4759, 72.7694



27.7205, 28.4759, 1.6585



12.8494, 28.4759, 67.2243

# Complementary

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



48.1730, 28.4759, 72.7694



33.1105, 57.2239, 19.1994

# 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.



11.4508, 28.4759, 29.1815



48.1730, 28.4759, 72.7694



18.5885, 28.4759, 2.8305

# Square

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



48.1730, 28.4759, 72.7694



39.2161, 28.4759, 3.2248



13.2489, 28.4759, 9.3698



17.7261, 28.4759, 110.9875



# Rectangle

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



48.1730, 28.4759, 72.7694



51.2289, 28.4759, 16.2132



13.2489, 28.4759, 9.3698



12.0228, 28.4759, 52.8247

# Sweetspot

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



48.1740, 28.4772, 72.7700



81.9547, 74.0659, 103.7442



21.4642, 14.6606, 73.6509



17.1553, 15.0891, 22.0494



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.



48.1740, 28.4772, 72.7700



60.7639, 32.4598, 94.2899



40.7462, 25.5061, 33.6557



14.2815, 13.9302, 17.2525



25.3515, 12.2076, 40.1122



1.7614, 0.8478, 2.8023



# Inverse Universe

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



48.1740, 28.4772, 72.7700



60.7639, 32.4598, 94.2899



37.5062, 58.9822, 42.3472



14.2815, 13.9302, 17.2525



25.3515, 12.2076, 40.1122



1.7614, 0.8478, 2.8023



# Previews

## White Background



This preview shows how the XYZ color 48.1730, 28.4759, 72.7694 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

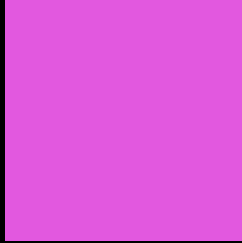
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.1730, 28.4759, 72.7694 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

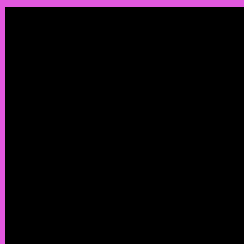
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 48.1730, 28.4759, 72.7694**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.1730, 28.4759, 72.7694.



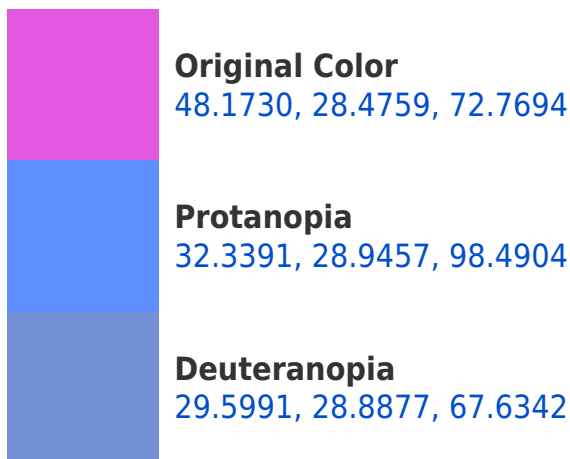
This preview shows how white text looks on a background with the XYZ color 48.1730, 28.4759,



# 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





## Tritanopia

37.9078, 28.3931, 22.5512

# Trichromacy



## Original Color

48.1730, 28.4759, 72.7694



## Protanomaly

34.2925, 26.1409, 88.0323



## Deuteranomaly

33.6367, 26.5932, 69.0058



## Tritanomaly

40.7126, 27.9062, 36.4984

# Monochromacy



## Original Color

48.1730, 28.4759, 72.7694



## Achromatopsia

26.9133, 28.3149, 30.8349



## Achromatomaly

32.2060, 26.4311, 42.9394

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.1730, 28.4759, 72.7694 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(226, 88, 223)` looks like.

```
.text, #text, p{  
    color:rgb(226, 88, 223)  
}
```

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(226, 88, 223) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(226, 88, 223) }
```

## Border

The CSS property to change the border of an element to XYZ 48.1730, 28.4759, 72.7694 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(226, 88, 223) }
```



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

```
.border{ border-color:rgb(226, 88, 223) }
```

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

Here you see how a box with a 4 pixel rgb(226, 88, 223) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(226, 88, 223); -webkit-box-  
shadow:4px 4px 4px 4px rgb(226, 88, 223);  
box-shadow:4px 4px 4px 4px rgb(226, 88,  
223) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.1730, 28.4759, 72.7694 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(226, 88, 223) }
```

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

```
.background{ background-color: rgb(226, 88,  
223) }
```

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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