

# Converting Colors

XYZ(72.1578, 73.7481, 86.7775)

Have a look what the booklet for  
XYZ(72.1578, 73.7481, 86.7775)  
contains.

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# **Color**

**XYZ(72.4168, 74.0331,  
86.8170)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E4DDE8
RGB	228, 221, 232
RGB Percent	89%, 87%, 91%
CMY	0.1059, 0.1333, 0.0902
CMYK	0.02, 0.05, 0.00, 0.09
HSL	278°, 19%, 89%
HSV	278°, 5%, 91%
XYZ	72.4168, 74.0331, 86.8170
YIQ	224.3470, 0.6410, 4.9050

# Conversions

## Conversions Part 2

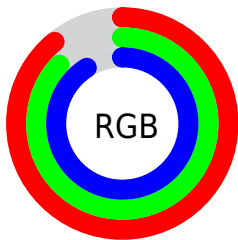
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	228, 221, 232
Decimal	14999016
CIE Lab	88.94, 4.35, -4.53
CIE LCh	89, 6.282, 313.851
Yxy	74.0331, 0.3104, 0.3174
Android (android.graphics.Color)	4293189096 (0xFFE4DDE8)
YUV	224.3470, 3.7729, 3.2037
Hunter-Lab	86.0425, -0.3416, 0.4060

# Details

The XYZ color **72.4168, 74.0331, 86.8170** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **72.9620, 78.9433, 79.8025**, and the grayscale version is **71.0751, 74.7765, 81.4316**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **38.7063, 39.2913, 46.6182** is the 20% darker color. If you saturate the color by 10%, you get **64.0979, 61.2728, 84.7936**, and if you desaturate by 10%, it is **81.7171, 88.5600, 89.1319**.

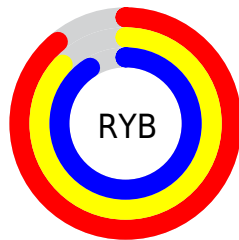
# Distribution



Red (89%)

Green (87%)

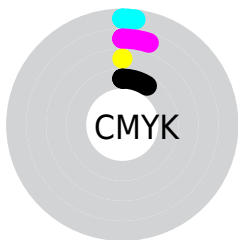
Blue (91%)



Red (89%)

Yellow (87%)

Blue (91%)

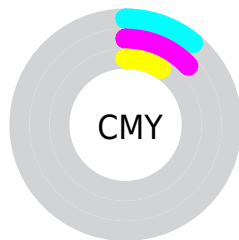


Cyan (2%)

Magenta (5%)

Yellow (0%)

Black (9%)



Cyan (11%)

Magenta (13%)

Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 72.4168, 74.0331, 86.8170 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 72.4168, 74.0331, 86.8170 by changing the saturation by 10% instead.



72.4168, 74.0331,  
86.8170

72.4168, 74.0331,  
86.8170

458.1262,  
474.5876, 537.9219

53.7859, 54.8211,  
64.7850

121.6565,  
124.9427, 144.8057

38.6605, 39.2585,  
46.8365

152.9961,  
157.4092, 181.5994

26.6753, 26.9609,  
32.5530

189.3025,  
195.0626, 224.1508

17.4648, 17.5439,  
21.5160

230.9413,  
238.2873, 272.8785

10.6638, 10.6230,  
13.3068

278.2777,  
287.4678, 328.2009

5.9069, 5.8139,  
7.5069

331.6770,

2.8286, 2.7323,

342.9884, 390.5365

3.6979

391.5048,  
405.2335, 460.3040

■ 1.0638, 0.9936,  
1.4611

■ 0.0000, 0.0000,  
0.1887

■ 72.4168, 74.0331,  
86.8170

■ 72.4168, 74.0331,  
86.8170

■ 64.0979, 61.2728,  
84.7936

■ 81.7171, 88.5600,  
89.1319

■ 56.7178, 50.1996,  
83.0452

■ 87.9404, 96.7374,  
90.3823

■ 50.2396, 40.7420,  
81.5611

■ 90.9507, 98.2892,  
90.5232

■ 44.6219, 32.8195,  
80.3280

■ 91.5657, 98.6063,  
90.5520

■ 39.8194, 26.3447,  
79.3314

■ 35.7823, 21.2211,  
78.5552

■ 32.4549, 17.3401,  
77.9815

■ 29.7725, 14.5757,  
77.5893

■ 27.6565, 12.7737,  
77.3530

# Harmonies

## Analogous

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



71.0704, 74.0331, 89.0391



72.4168, 74.0331, 86.8170



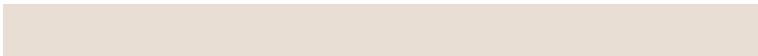
73.2199, 74.0331, 82.9673

# Triad

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



72.4168, 74.0331, 86.8170



71.1848, 74.0331, 72.8108



67.5581, 74.0331, 82.6361

# Complementary

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



72.4168, 74.0331, 86.8170



72.9620, 78.9433, 79.8025

# 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.



67.5877, 74.0331, 78.2967



72.4168, 74.0331, 86.8170



69.6668, 74.0331, 72.7294

# Square

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



72.4168, 74.0331, 86.8170



72.5016, 74.0331, 74.9317



68.3548, 74.0331, 74.7051



68.2732, 74.0331, 86.5670



# Rectangle

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



72.4168, 74.0331, 86.8170



73.3319, 74.0331, 80.0469



68.3548, 74.0331, 74.7051



67.4816, 74.0331, 81.1746

# Sweetspot

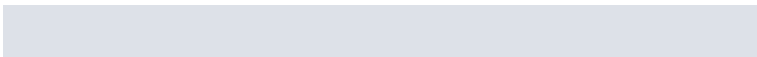
The Sweet Spot groups the original color and five complimentary colors.



72.4189, 74.0363, 86.8186



93.9014, 98.2083, 108.6147



71.3215, 75.0699, 87.0760



20.1109, 21.0395, 23.2510



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.



72.4189, 74.0363, 86.8186



88.3437, 89.5833, 107.2428



73.4954, 74.6152, 85.7863



14.9686, 15.1221, 18.2743



14.9691, 6.7827, 42.9034



1.2072, 0.5533, 3.1751



# Inverse Universe

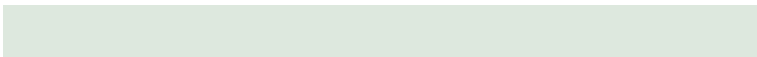
The Inverse Universe completely reimagines the original color for something new.



72.7285, 74.3084, 81.7480



88.8339, 90.0125, 99.2913



71.9256, 78.3864, 80.7783



15.0606, 15.2024, 16.7898



19.4273, 9.9051, 5.8792

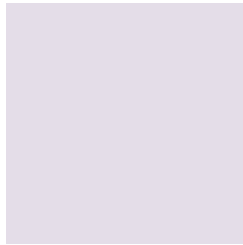


1.4790, 0.7493, 0.6630



# Previews

## White Background



This preview shows how the XYZ color 72.4168, 74.0331, 86.8170 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

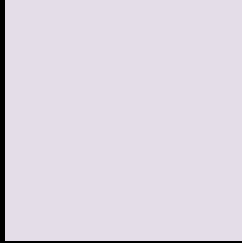
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 72.4168, 74.0331, 86.8170 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

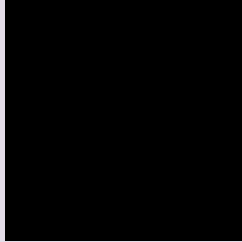
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

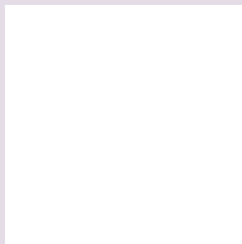
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 72.4168, 74.0331, 86.8170**

## **Background**



This preview shows how black text looks on a background with the XYZ color 72.4168, 74.0331, 86.8170.



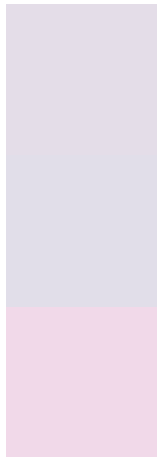
This preview shows how white text looks on a background with the XYZ color 72.4168, 74.0331,



# 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

72.4168, 74.0331, 86.8170

### Protanopia

71.8806, 74.1333, 87.6114

### Deuteranopia

75.7965, 74.2097, 87.4198



## Tritanopia

73.1924, 73.9588, 90.5386

# Trichromacy



## Original Color

72.4168, 74.0331, 86.8170

## Protanomaly

72.1933, 74.2945, 87.6261

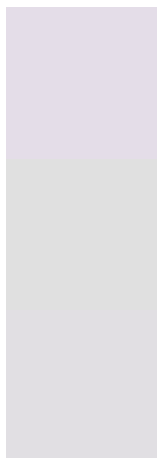
## Deuteranomaly

74.3715, 73.8589, 87.4272

## Tritanomaly

72.9017, 73.8426, 89.0080

# Monochromacy



## Original Color

72.4168, 74.0331, 86.8170

## Achromatopsia

70.8507, 74.5404, 81.1745

## Achromatomaly

71.3041, 74.3290, 83.2618

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 72.4168, 74.0331, 86.8170 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(228, 221, 232) looks like.

```
.text, #text, p{  
    color:rgb(228, 221, 232)  
}
```

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(228, 221, 232) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 221, 232) }
```

## Border

The CSS property to change the border of an element to XYZ 72.4168, 74.0331, 86.8170 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(228, 221, 232) }
```



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

```
.border{ border-color:rgb(228, 221, 232) }
```

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

Here you see how a box with a 4 pixel `rgb(228, 221, 232)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 221, 232); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 221, 232);  
box-shadow:4px 4px 4px 4px rgb(228, 221,  
232) }
```

# Background

The CSS property to change the background color of an element to XYZ 72.4168, 74.0331, 86.8170 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 221, 232) }
```

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

```
.background{ background-color: rgb(228,  
221, 232) }
```

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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