

# Converting Colors

XYZ(68.6238, 72.0063, 86.6634)

Have a look what the booklet for  
XYZ(68.6238, 72.0063, 86.6634)  
contains.

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# **Color**

**XYZ(68.7408, 72.1380,  
86.6449)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D8DDE8
RGB	216, 221, 232
RGB Percent	85%, 87%, 91%
CMY	0.1529, 0.1333, 0.0902
CMYK	0.07, 0.05, 0.00, 0.09
HSL	221°, 26%, 88%
HSV	221°, 7%, 91%
XYZ	68.7408, 72.1380, 86.6449
YIQ	220.7590, -6.5110, 2.3610

# Conversions

## Conversions Part 2

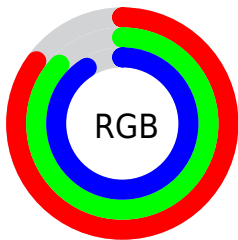
Format	Color
R <sub>Y</sub> B	216, 220, 232
Decimal	14212584
CIE Lab	88.03, 0.38, -5.96
CIE LCh	88, 5.977, 273.673
Yxy	72.1380, 0.3021, 0.3171
Android (android.graphics.Color)	4292402664 (0xFFD8DDE8)
YUV	220.7590, 5.5418, -4.1736
Hunter-Lab	84.9341, -4.1670, -1.0304

# Details

The XYZ color **68.7408, 72.1380, 86.6449** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **73.1426, 77.0511, 75.9842**, and the grayscale version is **68.5256, 72.0943, 78.5107**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **36.1706, 37.9841, 46.4996** is the 20% darker color. If you saturate the color by 10%, you get **58.3531, 60.8290, 85.0106**, and if you desaturate by 10%, it is **80.5003, 84.7517, 88.4609**.

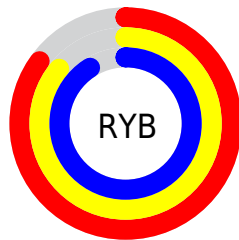
# Distribution



Red (85%)

Green (87%)

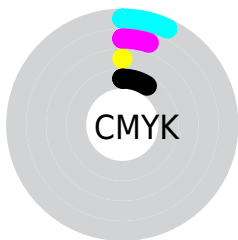
Blue (91%)



Red (85%)

Yellow (86%)

Blue (91%)

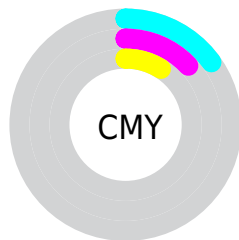


Cyan (7%)

Magenta (5%)

Yellow (0%)

Black (9%)



Cyan (15%)

Magenta (13%)

Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 68.7408, 72.1380, 86.6449 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 68.7408, 72.1380, 86.6449 by changing the saturation by 10% instead.



■ 68.7408, 72.1380,  
86.6449

■ 68.7408, 72.1380,  
86.6449

445.4519,  
468.0218, 537.3412

■ 50.7765, 53.2714,  
64.6434

116.4474,  
122.2527, 144.5636

■ 36.2511, 38.0195,  
46.7225

146.9204,  
154.2696, 181.3179

■ 24.7992, 25.9978,  
32.4636

182.2937,  
191.4388, 223.8269

■ 16.0554, 16.8220,  
21.4481

222.9326,  
234.1445, 272.5091

■ 9.6545, 10.1077,  
13.2575

269.2026,  
282.7713, 327.7831

■ 5.2310, 5.4704,  
7.4733

321.4689,

■ 2.4196, 2.5258,

337.7035, 390.0674

3.6769

380.0969,  
399.3256, 459.7806

■ 0.8549, 0.8895,  
1.4498

■ 0.0000, 0.0000,  
0.1801

■ 68.7408, 72.1380,  
86.6449

■ 68.7408, 72.1380,  
86.6449

■ 58.3531, 60.8290,  
85.0106

■ 80.5003, 84.7517,  
88.4609

■ 49.2795, 50.7726,  
83.5478

■ 90.8979, 97.2707,  
90.3293

■ 41.4674, 41.9264,  
82.2521

■ 91.5657, 98.6063,  
90.5519

■ 34.8579, 34.2421,  
81.1172

■ 29.3875, 27.6680,  
80.1366

■ 24.9862, 22.1479,  
79.3031

■ 21.5759, 17.6201,  
78.6089

■ 19.0663, 14.0153,  
78.0453

■ 17.3448, 11.2506,  
77.6024

# Harmonies

## Analogous

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



67.3563, 72.1380, 85.7955



68.7408, 72.1380, 86.6449



70.0963, 72.1380, 85.2631

# Triad

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



68.7408, 72.1380, 86.6449



70.8720, 72.1380, 74.2726



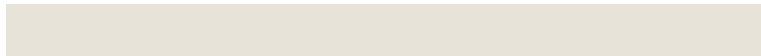
66.1370, 72.1380, 75.1151

# Complementary

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



68.7408, 72.1380, 86.6449



73.1426, 77.0511, 75.9842

# 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.



67.0561, 72.1380, 72.1914



68.7408, 72.1380, 86.6449



69.7880, 72.1380, 71.7169

# Square

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



68.7408, 72.1380, 86.6449



71.3375, 72.1380, 78.0441



68.3895, 72.1380, 70.9682

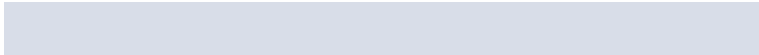


65.8653, 72.1380, 79.0501



# Rectangle

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



68.7408, 72.1380, 86.6449



70.7975, 72.1380, 83.2896



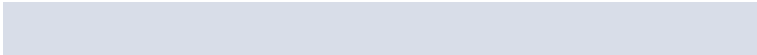
68.3895, 72.1380, 70.9682



66.3799, 72.1380, 73.9860

# Sweetspot

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



68.7429, 72.1411, 86.6465



92.0905, 96.8295, 108.4440



71.0326, 77.8557, 83.9098



19.7422, 20.7588, 23.2163



0.0000, 0.0000, 0.0000

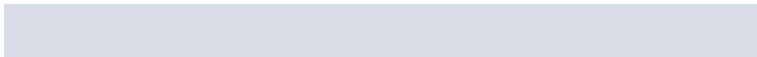


20.3446, 21.4041, 23.3091



# Same Dimension

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



68.7429, 72.1411, 86.6465



83.6282, 87.7126, 107.1303



68.3159, 69.9889, 86.2536



13.9487, 14.6188, 18.2309



9.4916, 6.0454, 43.0498



0.7821, 0.6081, 3.2081



# Inverse Universe

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



70.8873, 71.4894, 78.4728



86.7080, 86.7975, 95.3865



73.5868, 79.3412, 76.4029



14.5617, 14.4419, 15.8923



19.1844, 9.8080, 4.6003

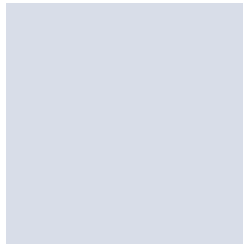


1.4584, 0.7411, 0.5544



# Previews

## White Background



This preview shows how the XYZ color 68.7408, 72.1380, 86.6449 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

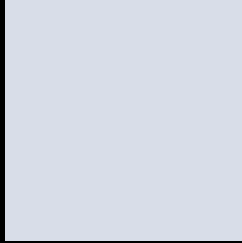
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 68.7408, 72.1380, 86.6449 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

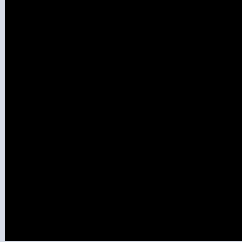
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

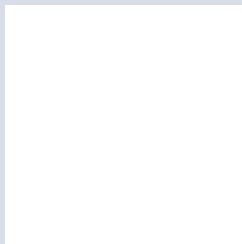
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 68.7408, 72.1380, 86.6449**

## **Background**



This preview shows how black text looks on a background with the XYZ color 68.7408, 72.1380, 86.6449.



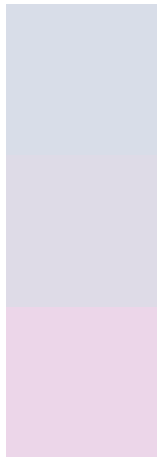
This preview shows how white text looks on a background with the XYZ color 68.7408, 72.1380,



# 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

68.7408, 72.1380, 86.6449

### Protanopia

69.8795, 71.9622, 85.8083

### Deuteranopia

73.3466, 71.8092, 87.0856



## Tritanopia

69.6411, 72.1112, 91.1373

# Trichromacy



## Original Color

68.7408, 72.1380, 86.6449

## Protanomaly

69.5322, 72.1716, 85.8671

## Deuteranomaly

71.8339, 72.1669, 87.2343

## Tritanomaly

69.3488, 71.9942, 89.5981

# Monochromacy



## Original Color

68.7408, 72.1380, 86.6449

## Achromatopsia

68.7264, 72.3055, 78.7407

## Achromatomaly

68.6605, 72.2092, 81.5531

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 68.7408, 72.1380, 86.6449 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(216, 221, 232) looks like.

```
.text, #text, p{  
    color:rgb(216, 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(216, 221, 232) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(216, 221, 232) }
```

## Border

The CSS property to change the border of an element to XYZ 68.7408, 72.1380, 86.6449 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(216, 221, 232) }
```



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

```
.border{ border-color:rgb(216, 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(216, 221, 232) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(216, 221, 232); -webkit-box-  
shadow:4px 4px 4px 4px rgb(216, 221, 232);  
box-shadow:4px 4px 4px 4px rgb(216, 221,  
232) }
```

# Background

The CSS property to change the background color of an element to XYZ 68.7408, 72.1380, 86.6449 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(216, 221, 232) }
```

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

```
.background{ background-color: rgb(216,  
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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