

# Converting Colors

XYZ(66.8722, 72.7161, 42.9045)

Have a look what the booklet for  
XYZ(66.8722, 72.7161, 42.9045)  
contains.

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# Color

**XYZ(66.8849, 72.5440,  
42.8249)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ECDE9E
RGB	236, 222, 158
RGB Percent	93%, 87%, 62%
CMY	0.0745, 0.1294, 0.3804
CMYK	0.00, 0.06, 0.33, 0.07
HSL	49°, 67%, 77%
HSV	49°, 33%, 93%
XYZ	66.8849, 72.5440, 42.8249
YIQ	218.8900, 28.8880, -16.9360

# Conversions

## Conversions Part 2

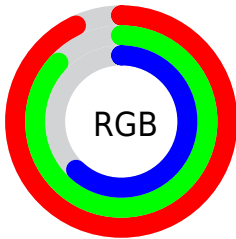
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	175, 236, 158
Decimal	15523486
CIE <sub>Lab</sub>	88.23, -4.53, 33.17
CIE <sub>LCh</sub>	88, 33.480, 97.781
Yxy	72.5440, 0.3670, 0.3980
Android (android.graphics.Color)	4293713566 (0xFFECDE9E)
YUV	218.8900, -30.0188, 15.0055
Hunter-Lab	85.1728, -8.8790, 29.8099

# Details

The XYZ color **66.8849, 72.5440, 42.8249** is a light color, and the websafe version is hex **CCCC99**. A complement of this color would be **43.9931, 42.8291, 85.3052**, and the grayscale version is **67.4448, 70.9571, 77.2723**.

A 20% lighter version of the original color is **89.0102, 97.5841, 77.0951**, and **35.0106, 38.2617, 19.1757** is the 20% darker color. If you saturate the color by 10%, you get **63.9356, 69.5898, 32.7640**, and if you desaturate by 10%, it is **70.2563, 75.7173, 54.9527**.

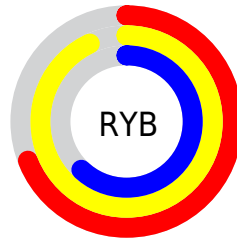
# Distribution



Red (93%)

Green (87%)

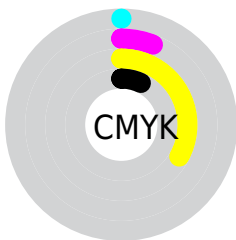
Blue (62%)



Red (69%)

Yellow (93%)

Blue (62%)

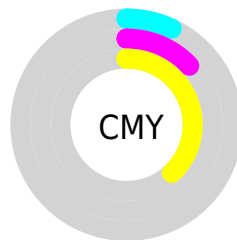


Cyan (0%)

Magenta (6%)

Yellow (33%)

Black (7%)



Cyan (7%)

Magenta (13%)

Yellow (38%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 66.8849, 72.5440, 42.8249 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 66.8849, 72.5440, 42.8249 by changing the saturation by 10% instead.



66.8849, 72.5440,  
42.8249

66.8849, 72.5440,  
42.8249

438.9739,  
469.4329, 373.7912

49.2614, 53.6032,  
29.4174

113.8062,  
122.8296, 80.7301

35.0423, 38.2845,  
19.1485

143.8347,  
154.9433, 106.0648

23.8621, 26.2036,  
11.5997

178.7290,  
192.2166, 136.2124

15.3556, 16.9760,  
6.3525

218.8544,  
235.0340, 171.5913

9.1572, 10.2174,  
2.9884

264.5762,  
283.7800, 212.6201

4.9018, 5.5433,  
1.0887

316.2598,

2.2239, 2.5694,

338.8388, 259.7173

0.0000

374.2706,  
400.5950, 313.3015

■ 0.7553, 0.9113,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 66.8849, 72.5440,  
42.8249

■ 66.8849, 72.5440,  
42.8249

■ 63.9356, 69.5898,  
32.7640

■ 70.2563, 75.7173,  
54.9527

■ 61.3801, 66.8356,  
24.6473


■ 74.0651, 79.1085,  
69.2514

■ 59.1956, 64.2742,  
18.3464


■ 78.3324, 82.7290,  
85.8237


■ 57.3541, 61.8942,  
13.7152


■ 83.0765, 86.5864,  
104.7642


 55.8233, 59.6823,  
10.5853


 84.7458, 89.2603,  
107.3701

 54.5643, 57.6228,  
8.7526

 86.0289, 91.8264,  
107.7978

 53.8078, 56.2642,  
8.0241

 87.3414, 94.4515,  
108.2353

 88.4021, 96.5729,  
108.5889

# Harmonies

## Analogous

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



74.9457, 72.5440, 44.7627



66.8849, 72.5440, 42.8249



59.9317, 72.5440, 48.9818

# Triad

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



66.8849, 72.5440, 42.8249



57.4712, 72.5440, 109.2388



84.2281, 72.5440, 96.8857

# Complementary

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



66.8849, 72.5440, 42.8249



43.9931, 42.8291, 85.3052

# 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.



78.8324, 72.5440, 119.2695



66.8849, 72.5440, 42.8249



63.2846, 72.5440, 127.3104

# Square

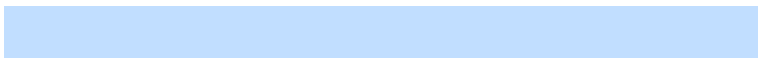
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



66.8849, 72.5440, 42.8249



54.7780, 72.5440, 85.1171



71.0590, 72.5440, 131.2989



85.3791, 72.5440, 73.1606

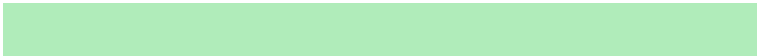


# Rectangle

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



66.8849, 72.5440, 42.8249



56.7147, 72.5440, 57.7115



71.0590, 72.5440, 131.2989



82.8315, 72.5440, 104.9404

# Sweetspot

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



66.8867, 72.5473, 42.8264



89.7706, 95.5807, 88.2128



54.2948, 45.2775, 45.0596



19.0655, 20.3301, 18.3069



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

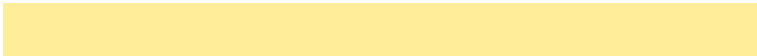


# Same Dimension

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



66.8867, 72.5473, 42.8264



77.1870, 83.9543, 42.2736



63.1175, 76.3531, 43.7597



16.1087, 17.1405, 15.9781



29.7467, 31.1877, 4.4520



2.3958, 2.5689, 0.3696



# Inverse Universe

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



43.9931, 42.8291, 85.3052



45.8066, 43.2318, 100.5381



46.8251, 40.5413, 84.7143



14.4497, 14.9859, 19.0532



8.8753, 4.3975, 44.1240

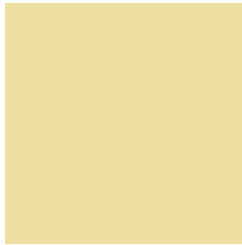


0.7596, 0.4707, 3.4857



# Previews

## White Background



This preview shows how the XYZ color 66.8849, 72.5440, 42.8249 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

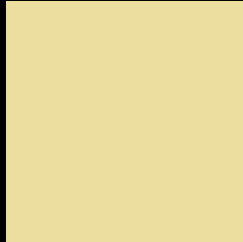
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 66.8849, 72.5440, 42.8249 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 66.8849, 72.5440, 42.8249**

## **Background**



This preview shows how black text looks on a background with the XYZ color 66.8849, 72.5440, 42.8249.



This preview shows how white text looks on a background with the XYZ color 66.8849, 72.5440,



# 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

66.8849, 72.5440, 42.8249

### Protanopia

67.2879, 72.3587, 42.7679

### Deuteranopia

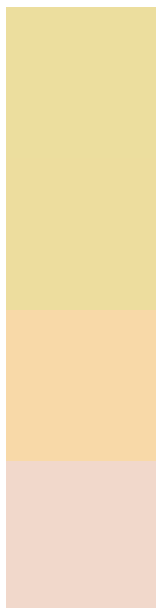
72.9265, 72.4091, 50.1771



## **Tritanopia**

75.2453, 72.4787, 84.1527

# Trichromacy



## Original Color

66.8849, 72.5440, 42.8249

## Protanomaly

66.9531, 72.1860, 42.7522

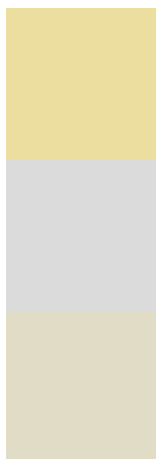
## Deuteranomaly

70.5921, 72.4093, 47.3016

## Tritanomaly

71.6110, 72.1243, 66.6470

# Monochromacy



## Original Color

66.8849, 72.5440, 42.8249

## Achromatopsia

67.3311, 70.8376, 77.1421

## Achromatomaly

66.7226, 71.2252, 63.0545

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 66.8849, 72.5440, 42.8249 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(236, 222, 158)` looks like.

```
.text, #text, p{  
    color:rgb(236, 222, 158)  
}
```

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(236, 222, 158) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(236, 222, 158) }
```

## Border

The CSS property to change the border of an element to XYZ 66.8849, 72.5440, 42.8249 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(236, 222, 158) }
```



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

```
.border{ border-color:rgb(236, 222, 158) }
```

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

Here you see how a box with a 4 pixel `rgb(236, 222, 158)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(236, 222, 158); -webkit-box-  
shadow:4px 4px 4px 4px rgb(236, 222, 158);  
box-shadow:4px 4px 4px 4px rgb(236, 222,  
158) }
```

# Background

The CSS property to change the background color of an element to XYZ 66.8849, 72.5440, 42.8249 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(236, 222, 158) }
```

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

```
.background{ background-color: rgb(236,  
222, 158) }
```

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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