

# Converting Colors

XYZ(64.4929, 70.2326, 46.5837)

Have a look what the booklet for  
XYZ(64.4929, 70.2326, 46.5837)  
contains.

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# Color

**XYZ(64.3015, 69.9470,  
46.6713)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E4DBA7
RGB	228, 219, 167
RGB Percent	89%, 86%, 65%
CMY	0.1059, 0.1412, 0.3451
CMYK	0.00, 0.04, 0.27, 0.11
HSL	51°, 53%, 77%
HSV	51°, 27%, 89%
XYZ	64.3015, 69.9470, 46.6713
YIQ	215.7630, 22.0560, -14.2640

# Conversions

## Conversions Part 2

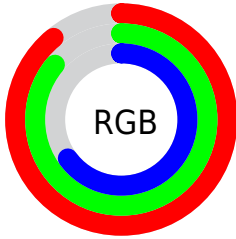
<b>Format</b>	<b>Color</b>
<b>RYB</b>	178, 228, 167
Decimal	14998439
CIELab	86.97, -4.91, 26.74
CIELCh	87, 27.185, 100.400
Yxy	69.9470, 0.3554, 0.3866
Android (android.graphics.Color)	4293188519 (0xFFE4DBA7)
YUV	215.7630, -24.0402, 10.7318
Hunter-Lab	83.6343, -9.1219, 25.4578

# Details

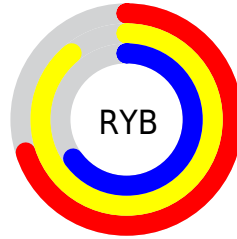
The XYZ color **64.3015, 69.9470, 46.6713** is a light color, and the websafe version is hex **CCCC99**. A complement of this color would be **45.4651, 44.8666, 79.6630**, and the grayscale version is **65.2584, 68.6569, 74.7673**.

A 20% lighter version of the original color is **90.1848, 98.0539, 83.2803**, and **33.3832, 36.5594, 21.5168** is the 20% darker color. If you saturate the color by 10%, you get **61.5092, 67.4432, 36.2425**, and if you desaturate by 10%, it is **67.4868, 72.6412, 59.0661**.

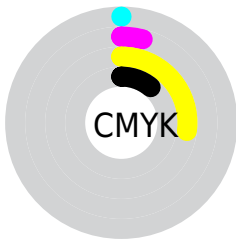
# Distribution



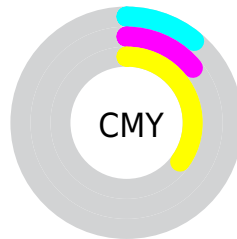
- Red (89%)
- Green (86%)
- Blue (65%)



- Red (70%)
- Yellow (89%)
- Blue (65%)



- Cyan (0%)
- Magenta (4%)
- Yellow (27%)
- Black (11%)



- Cyan (11%)
- Magenta (14%)
- Yellow (35%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 64.3015, 69.9470, 46.6713 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 64.3015, 69.9470, 46.6713 by changing the saturation by 10% instead.



■ 64.3015, 69.9470,  
46.6713

■ 64.3015, 69.9470,  
46.6713

429.8626,  
460.3639, 389.8567

■ 47.1575, 51.4833,  
32.4234

■ 110.1163,  
119.1332, 86.5676

■ 33.3687, 36.5934,  
21.4176

■ 139.5179,  
150.6245, 113.0531

■ 22.5696, 24.8928,  
13.2354

173.7360,  
187.2271, 144.4548

■ 14.3950, 15.9972,  
7.4582

213.1361,  
229.3254, 181.1914

■ 8.4794, 9.5222,  
3.6675

258.0834,  
277.3039, 223.6814

■ 4.4576, 5.0833,  
1.4448

308.9434,

■ 1.9641, 2.2962,

331.5468, 272.3432

0.1763

366.0813,  
392.4387, 327.5954

■ 0.6137, 0.7717,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 64.3015, 69.9470,  
46.6713

■ 64.3015, 69.9470,  
46.6713

■ 61.5092, 67.4432,  
36.2425

■ 67.4868, 72.6412,  
59.0661

■ 59.0849, 65.1123,  
27.6725

■ 71.0778, 75.5239,  
73.5177

■ 57.0089, 62.9487,  
20.8505

■ 75.0934, 78.6050,  
90.1167

■ 55.2576, 60.9429,  
15.6522

■ 79.0297, 81.6832,  
106.2089

■ 53.8041, 59.0839,  
11.9369

■ 79.9876, 83.5991,  
106.5282

■ 52.6170, 57.3589,  
9.5400

■ 80.9638, 85.5515,  
106.8536

■ 51.6564, 55.7519,  
8.2512

■ 81.9583, 87.5404,  
107.1851

■ 51.3714, 55.2468,  
7.9561

■ 82.9711, 89.5662,  
107.5227

■ 84.0026, 91.6290,  
107.8665

# Harmonies

## Analogous

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



70.6652, 69.9470, 47.7270



64.3015, 69.9470, 46.6713



58.8750, 69.9470, 52.5031

# Triad

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



64.3015, 69.9470, 46.6713



57.6066, 69.9470, 101.1608



78.6678, 69.9470, 88.5097

# Complementary

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



64.3015, 69.9470, 46.6713



45.4651, 44.8666, 79.6630

# Split Complementary

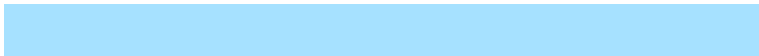
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



74.7186, 69.9470, 106.0315



64.3015, 69.9470, 46.6713



62.4682, 69.9470, 114.1028

# Square

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



64.3015, 69.9470, 46.6713



55.1763, 69.9470, 82.6525



68.7123, 69.9470, 116.0150



79.2365, 69.9470, 70.0175



# Rectangle

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



64.3015, 69.9470, 46.6713



56.4162, 69.9470, 60.1533



68.7123, 69.9470, 116.0150



77.6803, 69.9470, 94.7816

# Sweetspot

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



64.3033, 69.9502, 46.6728



90.9855, 96.8507, 92.1932



53.6657, 47.2728, 47.4492



19.3195, 20.6072, 19.1037



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.



64.3033, 69.9502, 46.6728



80.8624, 88.3742, 52.5344



60.3535, 71.4924, 47.1786



15.4110, 16.4359, 15.2647



29.7323, 32.0387, 4.6170



2.2467, 2.4666, 0.3577



# Inverse Universe

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



45.4651, 44.8666, 79.6630



52.8118, 51.0292, 101.6739



48.6485, 43.9757, 79.3233



13.7535, 14.2284, 18.1658



8.4627, 3.9876, 42.7068

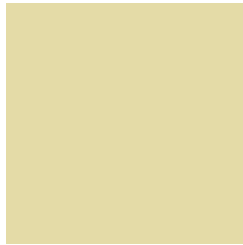


0.6792, 0.4023, 3.1738



# Previews

## White Background



This preview shows how the XYZ color 64.3015, 69.9470, 46.6713 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

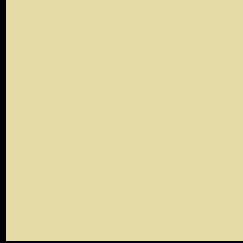
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 64.3015, 69.9470, 46.6713 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

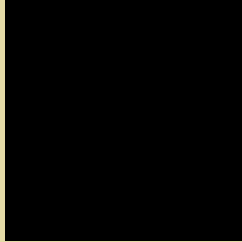
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

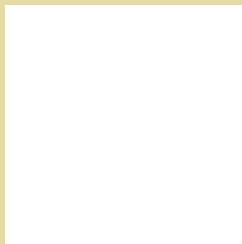
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 64.3015, 69.9470, 46.6713

## Background



This preview shows how black text looks on a background with the XYZ color 64.3015, 69.9470, 46.6713.



This preview shows how white text looks on a background with the XYZ color 64.3015, 69.9470,



# 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

64.3015, 69.9470, 46.6713

### Protanopia

65.3001, 69.7025, 46.0886

### Deuteranopia

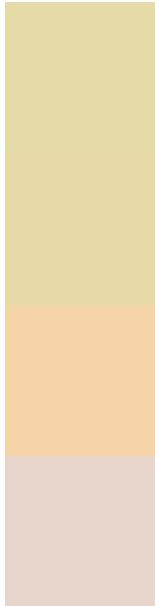
71.2019, 69.7255, 47.2417



## Tritanopia

71.4203, 69.7968, 82.3809

# Trichromacy



## Original Color

64.3015, 69.9470, 46.6713

## Protanomaly

64.9093, 69.8849, 46.1444

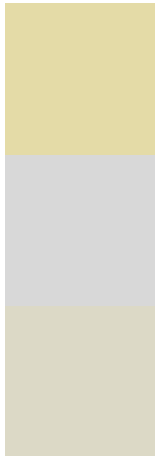
## Deuteranomaly

68.5183, 69.8281, 46.9127

## Tritanomaly

68.3447, 69.6567, 67.6005

# Monochromacy



## Original Color

64.3015, 69.9470, 46.6713

## Achromatopsia

65.2694, 68.6685, 74.7800

## Achromatomaly

64.5211, 68.9186, 63.3281

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 64.3015, 69.9470, 46.6713 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, 219, 167)` looks like.

```
.text, #text, p{  
    color:rgb(228, 219, 167)  
}
```

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, 219, 167) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 219, 167) }
```

## Border

The CSS property to change the border of an element to XYZ 64.3015, 69.9470, 46.6713 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, 219, 167) }
```



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

```
.border{ border-color:rgb(228, 219, 167) }
```

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

Here you see how a box with a 4 pixel `rgb(228, 219, 167)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 219, 167); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 219, 167);  
box-shadow:4px 4px 4px 4px rgb(228, 219,  
167) }
```

# Background

The CSS property to change the background color of an element to XYZ 64.3015, 69.9470, 46.6713 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 219, 167) }
```

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

```
.background{ background-color: rgb(228,  
219, 167) }
```

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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