

# Converting Colors

XYZ(64.9129, 71.6223, 50.9771)

Have a look what the booklet for  
XYZ(64.9129, 71.6223, 50.9771)  
contains.

<b>XYZ(64.8660, 71.7178, 50.9816)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(64.8660, 71.7178,  
50.9816)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E0DFAF
RGB	224, 223, 175
RGB Percent	88%, 87%, 69%
CMY	0.1216, 0.1255, 0.3137
CMYK	0.00, 0.00, 0.22, 0.12
HSL	59°, 44%, 78%
HSV	59°, 22%, 88%
XYZ	64.8660, 71.7178, 50.9816
YIQ	217.8270, 16.0040, -14.7160

# Conversions

## Conversions Part 2

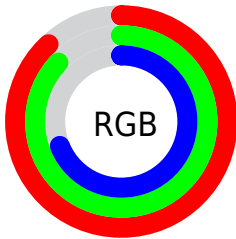
Format	Color
<a href="#">RYB</a>	<a href="#">176, 224, 175</a>
Decimal	<a href="#">14737327</a>
CIELab	<a href="#">87.83, -7.34, 23.72</a>
CIELCh	<a href="#">88, 24.828, 107.198</a>
Yxy	<a href="#">71.7178, 0.3458, 0.3824</a>
Android (android.graphics.Color)	<a href="#">4292927407</a> ( <a href="#">0xFFE0DFAF</a> )
YUV	<a href="#">217.8270, -21.1137, 5.4137</a>
Hunter-Lab	<a href="#">84.6864, -11.4780, 23.5876</a>

# Details

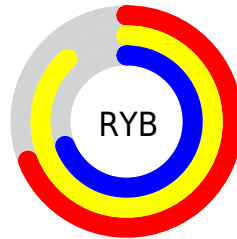
The XYZ color **64.8660, 71.7178, 50.9816** is a light color, and the websafe version is hex **CCCC99**. A complement of this color would be **46.6589, 45.5454, 76.8533**, and the grayscale version is **66.6561, 70.1274, 76.3687**.

A 20% lighter version of the original color is **91.4238, 98.5495, 89.8047**, and **33.6639, 37.7352, 23.9217** is the 20% darker color. If you saturate the color by 10%, you get **62.7254, 70.6699, 40.2996**, and if you desaturate by 10%, it is **67.3757, 72.9188, 63.5889**.

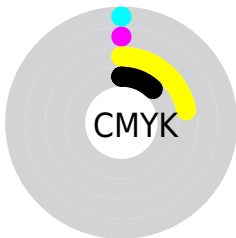
# Distribution



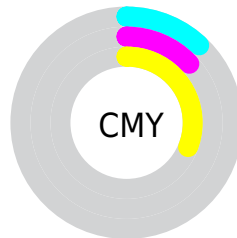
- Red (88%)
- Green (87%)
- Blue (69%)



- Red (69%)
- Yellow (88%)
- Blue (69%)



- Cyan (0%)
- Magenta (0%)
- Yellow (22%)
- Black (12%)



- Cyan (12%)
- Magenta (13%)
- Yellow (31%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 64.8660, 71.7178, 50.9816 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 64.8660, 71.7178, 50.9816 by changing the saturation by 10% instead.



■ 64.8660, 71.7178,  
50.9816

■ 64.8660, 71.7178,  
50.9816

431.8631,  
466.5588, 407.3368

■ 47.6167, 52.9282,  
35.8173

■ 110.9240,  
121.6552, 93.0388

■ 33.7335, 37.7454,  
24.0046

140.4634,  
153.5718, 120.7688

■ 22.8508, 25.7852,  
15.1248

174.8302,  
190.6329, 153.5245

■ 14.6035, 16.6630,  
8.7594

214.3898,  
233.2228, 191.7244

■ 8.6261, 9.9945,  
4.4899

259.5075,  
281.7259, 235.7870

■ 4.5532, 5.3953,  
1.8978

310.5488,

■ 2.0196, 2.4810,

336.5267, 286.1309

0.4913

367.8788,  
398.0095, 343.1747

■ 0.6450, 0.8671,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 64.8660, 71.7178,  
50.9816

■ 64.8660, 71.7178,  
50.9816

■ 62.7254, 70.6699,  
40.2996

■ 67.3757, 72.9188,  
63.5889

■ 60.9303, 69.7582,  
31.4435


■ 70.2655, 74.2699,  
78.2050


■ 59.4630, 68.9782,  
24.3122

■ 73.5532, 75.7807,  
94.9141


■ 58.3021, 68.3212,  
18.7927


■ 75.6684, 76.8230,  
105.4479


 57.4236, 67.7778,  
14.7588


 75.7914, 77.0690,  
105.4889


 56.8000, 67.3368,  
12.0652


 75.9147, 77.3156,  
105.5300

 56.3981, 66.9850,  
10.5379

 76.0383, 77.5628,  
105.5712

 56.1905, 66.7471,  
9.9219

 76.1623, 77.8107,  
105.6125

 76.2866, 78.0593,  
105.6540

# Harmonies

## Analogous

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



70.7104, 71.7178, 50.4977



64.8660, 71.7178, 50.9816



60.1762, 71.7178, 58.0276

# Triad

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



64.8660, 71.7178, 50.9816



60.7443, 71.7178, 104.4347



79.8375, 71.7178, 85.5111

# Complementary

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



64.8660, 71.7178, 50.9816



46.6589, 45.5454, 76.8533

# Split Complementary

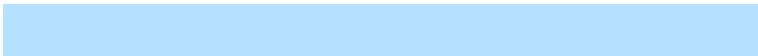
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



76.8326, 71.7178, 102.3100



64.8660, 71.7178, 50.9816



65.6827, 71.7178, 114.2489

# Square

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



64.8660, 71.7178, 50.9816



57.8924, 71.7178, 88.0944



71.5753, 71.7178, 113.4195



79.5874, 71.7178, 68.8705



# Rectangle

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



64.8660, 71.7178, 50.9816



58.2333, 71.7178, 66.1618



71.5753, 71.7178, 113.4195



79.1676, 71.7178, 91.3688

# Sweetspot

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



64.8679, 71.7210, 50.9831



92.1925, 98.6722, 94.4223



53.9705, 49.6679, 48.1470



19.6829, 21.0965, 19.9569



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.



64.8679, 71.7210, 50.9831



85.7249, 95.5854, 61.9052



58.5174, 68.8429, 50.7623



14.8467, 15.9793, 14.6086



32.7178, 38.8735, 5.7789



2.2755, 2.7099, 0.4031



# Inverse Universe

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



46.6589, 45.5454, 76.8533



57.3853, 54.8473, 102.1698



52.0389, 48.0304, 77.0494



12.9743, 13.2876, 17.2686



7.8703, 3.2101, 41.2532

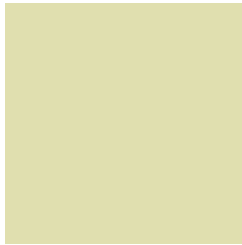


0.5535, 0.2385, 2.8621



# Previews

## White Background



This preview shows how the XYZ color 64.8660, 71.7178, 50.9816 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

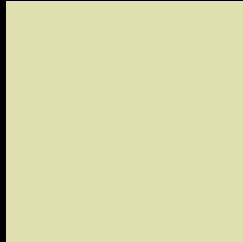
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 64.8660, 71.7178, 50.9816 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

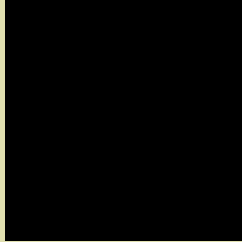
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

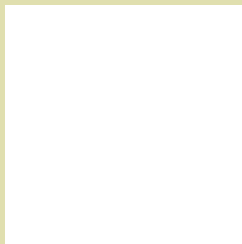
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 64.8660, 71.7178, 50.9816**

## **Background**



This preview shows how black text looks on a background with the XYZ color 64.8660, 71.7178, 50.9816.



This preview shows how white text looks on a background with the XYZ color 64.8660, 71.7178,



# 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

64.8660, 71.7178, 50.9816

### Protanopia

67.0677, 71.6960, 49.8390

### Deuteranopia

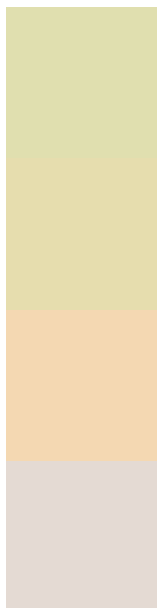
72.9202, 71.6016, 52.6250



## Tritanopia

71.8209, 71.4160, 86.3432

# Trichromacy



## Original Color

64.8660, 71.7178, 50.9816

## Protanomaly

66.1296, 71.5919, 50.3776

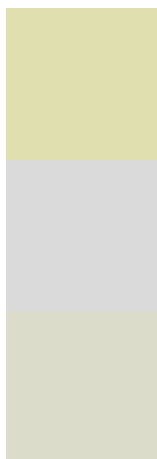
## Deuteranomaly

69.9000, 71.5592, 52.2477

## Tritanomaly

68.8242, 71.3399, 71.7706

# Monochromacy



## Original Color

64.8660, 71.7178, 50.9816

## Achromatopsia

66.6397, 70.1102, 76.3500

## Achromatomaly

65.7691, 70.6663, 66.0507

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 64.8660, 71.7178, 50.9816 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(224, 223, 175)` looks like.

```
.text, #text, p{  
    color:rgb(224, 223, 175)  
}
```

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(224, 223, 175) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(224, 223, 175) }
```

## Border

The CSS property to change the border of an element to XYZ 64.8660, 71.7178, 50.9816 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(224, 223, 175) }
```



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

```
.border{ border-color:rgb(224, 223, 175) }
```

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

Here you see how a box with a 4 pixel rgb(224, 223, 175) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(224, 223, 175); -webkit-box-  
shadow:4px 4px 4px 4px rgb(224, 223, 175);  
box-shadow:4px 4px 4px 4px rgb(224, 223,  
175) }
```

# Background

The CSS property to change the background color of an element to XYZ 64.8660, 71.7178, 50.9816 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(224, 223, 175) }
```

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

```
.background{ background-color: rgb(224,  
223, 175) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor