

# Converting Colors

XYZ(68.1157, 71.0941, 22.9649)

Have a look what the booklet for  
XYZ(68.1157, 71.0941, 22.9649)  
contains.

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# **Color**

**XYZ(68.2440, 71.3510,  
23.0072)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFD867
RGB	255, 216, 103
RGB Percent	100%, 85%, 40%
CMY	0.0000, 0.1529, 0.5961
CMYK	0.00, 0.15, 0.60, 0.00
HSL	45°, 100%, 70%
HSV	45°, 60%, 100%
XYZ	68.2440, 71.3510, 23.0072
YIQ	214.7790, 59.5170, -26.8750

# Conversions

## Conversions Part 2

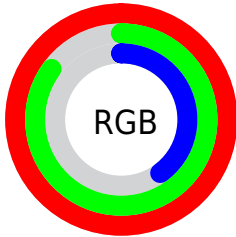
Format	Color
<a href="#">RYB</a>	<a href="#">155, 255, 103</a>
Decimal	<a href="#">16767079</a>
CIELab	<a href="#">87.66, 0.94, 59.59</a>
CIELCh	<a href="#">88, 59.600, 89.100</a>
Yxy	<a href="#">71.3510, 0.4197, 0.4388</a>
Android (android.graphics.Color)	<a href="#">4294957159 (0xFFFFD867)</a>
YUV	<a href="#">214.7790, -55.1070, 35.2738</a>
Hunter-Lab	<a href="#">84.4695, -3.6092, 42.9797</a>

# Details

The XYZ color **68.2440, 71.3510, 23.0072** is a light color, and the websafe version is hex **FFCC66**. A complement of this color would be **33.3161, 29.4484, 98.5353**, and the grayscale version is **64.7762, 68.1496, 74.2149**.

A 20% lighter version of the original color is **83.0858, 95.2143, 45.8974**, and **35.9804, 37.6645, 8.2793** is the 20% darker color. If you saturate the color by 10%, you get **65.5119, 67.6323, 16.7162**, and if you desaturate by 10%, it is **71.4364, 75.3660, 31.3781**.

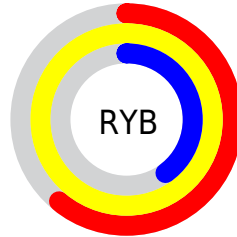
# Distribution



Red (100%)

Green (85%)

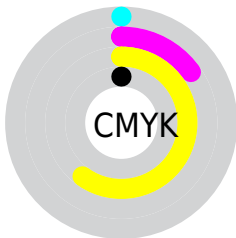
Blue (40%)



Red (61%)

Yellow (100%)

Blue (40%)

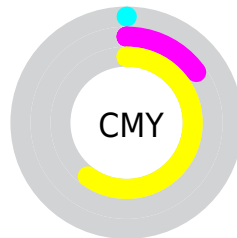


Cyan (0%)

Magenta (15%)

Yellow (60%)

Black (0%)



Cyan (0%)

Magenta (15%)


Yellow (60%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 68.2440, 71.3510, 23.0072 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 68.2440, 71.3510, 23.0072 by changing the saturation by 10% instead.




 68.2440, 71.3510,  
23.0072

 68.2440, 71.3510,  
23.0072

443.7232,  
465.2795, 280.8851


 50.3707, 52.6287,  
14.3935


 115.7411,  
121.1334, 49.3285


 35.9270, 37.5064,  
8.2530


 146.0956,  
152.9622, 67.8731

 24.5477, 25.5998,  
4.1672


 181.3412,  
189.9287, 90.5652

 15.8673, 16.5245,  
1.7175

 221.8433,  
232.4172, 117.8231

 9.5206, 9.8961,  
0.3727

267.9672,  
280.8122, 150.0656

 5.1421, 5.3301,  
0.0000

320.0782,

 2.3665, 2.4422,

335.4979, 187.7110

0.0000

378.5418,  
396.8589, 231.1780

■ 0.8284, 0.8475,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 68.2440, 71.3510,  
23.0072

■ 68.2440, 71.3510,  
23.0072

■ 65.5119, 67.6323,  
16.7162

■ 71.4364, 75.3660,  
31.3781

■ 63.1975, 64.1836,  
12.3070

■ 75.1170, 79.6815,  
41.9941

■ 61.2580, 60.9891,  
9.5505

■ 79.3169, 84.3140,  
55.0088

■ 59.6241, 58.0198,  
8.0852

■ 84.0633, 89.2753,  
70.5606

■ 59.5629, 57.9063,  
8.0377

■ 89.3811, 94.5767,  
88.7778

95.0497, 99.9999,  
108.9000

# Harmonies

## Analogous

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



82.7306, 71.3510, 28.2599



68.2440, 71.3510, 23.0072



55.4558, 71.3510, 27.6426

# Triad

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



68.2440, 71.3510, 23.0072



46.7600, 71.3510, 121.9524



93.8717, 71.3510, 124.8298

# Complementary

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



68.2440, 71.3510, 23.0072



33.3161, 29.4484, 98.5353

# 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.



81.8908, 71.3510, 167.3148



68.2440, 71.3510, 23.0072



54.8129, 71.3510, 165.2878

# Square

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



68.2440, 71.3510, 23.0072



44.1394, 71.3510, 76.4751



67.3918, 71.3510, 184.1992



98.7333, 71.3510, 78.9159



# Rectangle

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



68.2440, 71.3510, 23.0072



49.3023, 71.3510, 37.1024



67.3918, 71.3510, 184.1992



90.4684, 71.3510, 140.4989

# Sweetspot

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



68.2457, 71.3544, 23.0086



84.8790, 90.1043, 73.3048



51.0889, 32.9604, 29.8691



17.8539, 18.9662, 14.6373



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.



68.2457, 71.3544, 23.0086



64.9217, 66.7831, 15.4974



67.5823, 87.6418, 26.1874



19.1436, 20.2554, 19.0450



31.2497, 30.5106, 4.2421



3.1305, 3.1464, 0.4423



# Inverse Universe

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



33.3161, 29.4484, 98.5353



27.2154, 21.6497, 97.3521



33.4594, 22.3644, 97.1604



17.3817, 18.1351, 22.8343



10.5324, 5.9745, 50.0327



1.1089, 0.7485, 4.8993



# Previews

## White Background



This preview shows how the XYZ color 68.2440, 71.3510, 23.0072 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

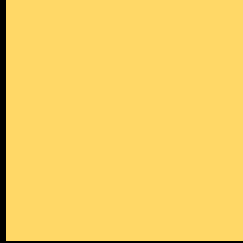
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 68.2440, 71.3510, 23.0072 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 68.2440, 71.3510, 23.0072**

## **Background**



This preview shows how black text looks on a background with the XYZ color 68.2440, 71.3510, 23.0072.



This preview shows how white text looks on a background with the XYZ color 68.2440, 71.3510,



# 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

68.2440, 71.3510, 23.0072

### Protanopia

65.4001, 71.4190, 23.4350

### Deuteranopia

71.0350, 71.2488, 41.4609



## Tritanopia

76.5821, 71.4862, 76.7797

# Trichromacy



## Original Color

68.2440, 71.3510, 23.0072

## Protanomaly

66.5416, 71.6190, 23.4134

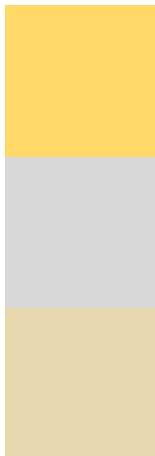
## Deuteranomaly

69.8019, 71.1593, 33.7231

## Tritanomaly

72.4701, 71.0229, 51.4842

# Monochromacy



## Original Color

68.2440, 71.3510, 23.0072

## Achromatopsia

64.5905, 67.9542, 74.0022

## Achromatomaly

64.5735, 68.4799, 49.8589

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 68.2440, 71.3510, 23.0072 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(255, 216, 103)` looks like.

```
.text, #text, p{  
    color:rgb(255, 216, 103)  
}
```

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(255, 216, 103) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 216, 103) }
```

## Border

The CSS property to change the border of an element to XYZ 68.2440, 71.3510, 23.0072 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(255, 216, 103) }
```



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

```
.border{ border-color:rgb(255, 216, 103) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 216, 103)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 216, 103); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 216, 103);  
box-shadow:4px 4px 4px 4px rgb(255, 216,  
103) }
```

# Background

The CSS property to change the background color of an element to XYZ 68.2440, 71.3510, 23.0072 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 216, 103) }
```

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

```
.background{ background-color: rgb(255,  
216, 103) }
```

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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