

# Converting Colors

XYZ(67.1132, 71.1733, 23.9377)

Have a look what the booklet for  
XYZ(67.1132, 71.1733, 23.9377)  
contains.

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# **Color**

**XYZ(67.1980, 71.1755,  
23.8322)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FBD96A
RGB	251, 217, 106
RGB Percent	98%, 85%, 42%
CMY	0.0157, 0.1490, 0.5843
CMYK	0.00, 0.14, 0.58, 0.02
HSL	46°, 95%, 70%
HSV	46°, 58%, 98%
XYZ	67.1980, 71.1755, 23.8322
YIQ	214.5120, 55.8950, -27.3130

# Conversions

## Conversions Part 2

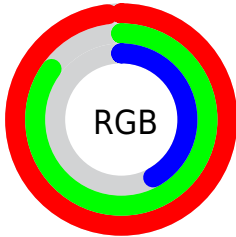
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	150, 251, 106
Decimal	16505194
CIE Lab	87.57, -1.00, 58.04
CIE LCh	88, 58.047, 90.984
Yxy	71.1755, 0.4143, 0.4388
Android (android.graphics.Color)	4294695274 (0xFFFB96A)
YUV	214.5120, -53.4964, 32.0000
Hunter-Lab	84.3656, -5.4628, 42.3072

# Details

The XYZ color **67.1980, 71.1755, 23.8322** is a light color, and the websafe version is hex **FFCC66**. A complement of this color would be **32.7342, 28.7844, 95.0970**, and the grayscale version is **64.5865, 67.9500, 73.9976**.

A 20% lighter version of the original color is **83.3452, 95.3181, 47.2632**, and **35.3012, 37.3042, 8.7080** is the 20% darker color. If you saturate the color by 10%, you get **64.5896, 67.7510, 17.4386**, and if you desaturate by 10%, it is **70.2457, 74.8677, 32.2580**.

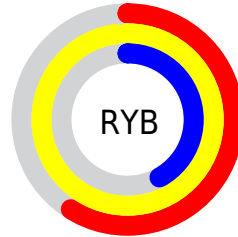
# Distribution



Red (98%)

Green (85%)

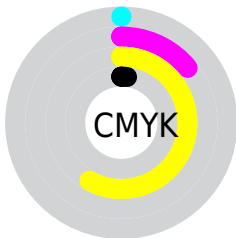
Blue (42%)



Red (59%)

Yellow (98%)

Blue (42%)

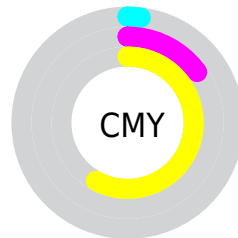


Cyan (0%)

Magenta (14%)

Yellow (58%)

Black (2%)



Cyan (2%)

Magenta (15%)

Yellow (58%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 67.1980, 71.1755, 23.8322 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 67.1980, 71.1755, 23.8322 by changing the saturation by 10% instead.



67.1980, 71.1755,  
23.8322

67.1980, 71.1755,  
23.8322

440.0706,  
464.6667, 285.2302

49.5168, 52.4854,  
14.9981

114.2523,  
120.8836, 50.6966

35.2459, 37.3921,  
8.6715

144.3562,  
152.6704, 69.5641

24.0197, 25.5113,  
4.4337

179.3316,  
189.5916, 92.6131

15.4731, 16.4584,  
1.8661

219.5441,  
232.0315, 120.2622

9.2405, 9.8491,  
0.4711

265.3589,  
280.3746, 152.9299

4.9568, 5.2990,  
0.0000

317.1413,

2.2564, 2.4238,

335.0052, 191.0348

0.0000

375.2568,  
396.3078, 234.9954

■ 0.7722, 0.8381,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 67.1980, 71.1755,  
23.8322

■ 67.1980, 71.1755,  
23.8322

■ 64.5896, 67.7510,  
17.4386

■ 70.2457, 74.8677,  
32.2580

■ 62.3807, 64.5692,  
12.8915


■ 73.7586, 78.8307,  
42.8711


■ 60.5317, 61.6161,  
9.9787


■ 77.7661, 83.0798,  
55.8165

■ 58.9879, 58.8690,  
8.4148

■ 82.2936, 87.6261,  
71.2257

 58.6672, 58.2766,  
8.1564

 87.3647, 92.4797,  
89.2200

 92.7423, 97.5467,  
108.5481

 93.5935, 99.2491,  
108.8318

# Harmonies

## Analogous

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



81.2746, 71.1755, 28.4148



67.1980, 71.1755, 23.8322



54.9542, 71.1755, 29.0849

# Triad

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



67.1980, 71.1755, 23.8322



47.4548, 71.1755, 123.2786



93.4504, 71.1755, 120.2405

# Complementary

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



67.1980, 71.1755, 23.8322



32.7342, 28.7844, 95.0970

# 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.



82.1649, 71.1755, 162.0243



67.1980, 71.1755, 23.8322



55.6404, 71.1755, 164.1557

# Square

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



67.1980, 71.1755, 23.8322



44.5466, 71.1755, 78.8032



68.1044, 71.1755, 180.2841



97.6143, 71.1755, 76.2074



# Rectangle

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



67.1980, 71.1755, 23.8322



49.1483, 71.1755, 38.9923



68.1044, 71.1755, 180.2841



90.2949, 71.1755, 135.4767

# Sweetspot

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



67.1997, 71.1789, 23.8336



85.6827, 91.2021, 75.1439



49.8393, 32.7784, 29.3906



18.1263, 19.3117, 15.3426



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.



67.1997, 71.1789, 23.8336



66.6365, 69.7921, 17.3658



65.0498, 84.4440, 26.5074



18.3623, 19.4604, 18.2508



30.9552, 30.8670, 4.3264



2.9474, 3.0197, 0.4275



# Inverse Universe

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



32.7342, 28.7844, 95.0970



28.0312, 22.3895, 97.4520



33.7655, 23.0468, 93.9352



16.6133, 17.3034, 21.8496



10.0624, 5.4803, 48.5010



1.0095, 0.6626, 4.5179



# Previews

## White Background



This preview shows how the XYZ color 67.1980, 71.1755, 23.8322 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

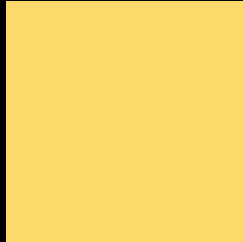
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 67.1980, 71.1755, 23.8322 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 67.1980, 71.1755, 23.8322

## Background



This preview shows how black text looks on a background with the XYZ color 67.1980, 71.1755, 23.8322.



This preview shows how white text looks on a background with the XYZ color 67.1980, 71.1755,



# 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

67.1980, 71.1755, 23.8322

### Protanopia

65.2092, 71.3026, 24.2358

### Deuteranopia

71.0350, 71.2488, 41.4609



## Tritanopia

76.4711, 71.0530, 77.3943

# Trichromacy



## Original Color

67.1980, 71.1755, 23.8322

## Protanomaly

65.9914, 71.3174, 24.1974

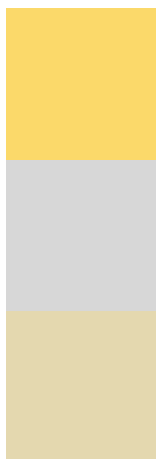
## Deuteranomaly

69.5071, 70.9989, 34.0855

## Tritanomaly

72.3040, 70.9140, 52.5248

# Monochromacy



## Original Color

67.1980, 71.1755, 23.8322

## Achromatopsia

64.5905, 67.9542, 74.0022

## Achromatomaly

64.2886, 68.7009, 50.4297

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 67.1980, 71.1755, 23.8322 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(251, 217, 106)` looks like.

```
.text, #text, p{  
    color:rgb(251, 217, 106)  
}
```

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(251, 217, 106) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(251, 217, 106) }
```

## Border

The CSS property to change the border of an element to XYZ 67.1980, 71.1755, 23.8322 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(251, 217, 106) }
```



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

```
.border{ border-color:rgb(251, 217, 106) }
```

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

Here you see how a box with a 4 pixel rgb(251, 217, 106) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(251, 217, 106); -webkit-box-  
shadow:4px 4px 4px 4px rgb(251, 217, 106);  
box-shadow:4px 4px 4px 4px rgb(251, 217,  
106) }
```

# Background

The CSS property to change the background color of an element to XYZ 67.1980, 71.1755, 23.8322 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(251, 217, 106) }
```

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

```
.background{ background-color: rgb(251,  
217, 106) }
```

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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