

# Converting Colors

XYZ(64.6414, 72.4268, 13.7048)

Have a look what the booklet for  
XYZ(64.6414, 72.4268, 13.7048)  
contains.

<b>XYZ(64.6414, 72.4268, 13.7048)</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(64.6414, 72.4268,  
13.7048)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F5DF33
RGB	245, 223, 51
RGB Percent	96%, 87%, 20%
CMY	0.0392, 0.1255, 0.8000
CMYK	0.00, 0.09, 0.79, 0.04
HSL	53°, 91%, 58%
HSV	53°, 79%, 96%
XYZ	64.6414, 72.4268, 13.7048
YIQ	209.9700, 68.3240, -48.8280

# Conversions

## Conversions Part 2

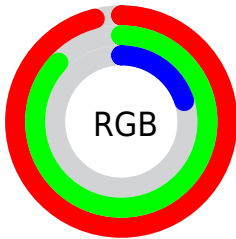
<b>Format</b>	<b>Color</b>
<b>RYB</b>	76, 245, 51
Decimal	16113459
CIELab	88.17, -9.32, 79.38
CIELCh	88, 79.924, 96.696
Yxy	72.4268, 0.4287, 0.4804
Android (android.graphics.Color)	4294303539 (0xFFFF5DF33)
YUV	209.9700, -78.3722, 30.7213
Hunter-Lab	85.1039, -13.3507, 50.0249

# Details

The XYZ color **64.6414, 72.4268, 13.7048** is a light color, and the websafe version is hex **CCCC00**. The color can be described as light washed yellow. A complement of this color would be **20.2295, 12.0617, 87.6475**, and the grayscale version is **61.7079, 64.9216, 70.6996**.

A 20% lighter version of the original color is **79.9246, 93.9499, 29.2509**, and **33.7698, 38.1956, 5.5926** is the 20% darker color. If you saturate the color by 10%, you get **63.5014, 70.7959, 11.3254**, and if you desaturate by 10%, it is **66.0810, 74.2027, 17.5878**.

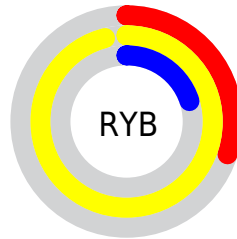
# Distribution



Red (96%)

Green (87%)

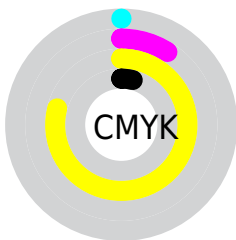
Blue (20%)



Red (30%)

Yellow (96%)

Blue (20%)

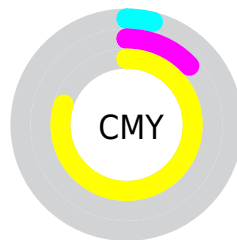


Cyan (0%)

Magenta (9%)

Yellow (79%)

Black (4%)



Cyan (4%)

Magenta (13%)

Yellow (80%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 64.6414, 72.4268, 13.7048 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 64.6414, 72.4268, 13.7048 by changing the saturation by 10% instead.



64.6414, 72.4268,  
13.7048

64.6414, 72.4268,  
13.7048

431.0678,  
469.0258, 226.7508

47.4340, 53.5074,  
7.7792

110.6027,  
122.6631, 33.2739

33.5882, 38.2080,  
3.8683

140.0873,  
154.7489, 47.7545

22.7388, 26.1441,  
1.5534

174.3951,  
191.9921, 65.9238

14.5204, 16.9315,  
0.2572

213.8913,  
234.7774, 88.2004

8.5676, 10.1857,  
0.0000

258.9413,  
283.4890, 115.0029

4.5151, 5.5222,  
0.0000

309.9105,

1.9975, 2.5568,

338.5113, 146.7498

0.0000

367.1642,  
400.2288, 183.8595

■ 0.6325, 0.9050,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 64.6414, 72.4268,  
13.7048

■ 64.6414, 72.4268,  
13.7048

■ 63.5014, 70.7959,  
11.3254

■ 66.0810, 74.2027,  
17.5878


■ 62.5963, 69.2755,  
10.1300


■ 67.8547, 76.1289,  
23.1766


■ 62.5265, 69.1535,  
10.0525


■ 69.9971, 78.2223,  
30.6467

■ 72.5374, 80.4946,  
40.1508

 75.5015, 82.9563,  
51.8259

 78.9134, 85.6170,  
65.7971

 82.7949, 88.4856,  
82.1799

 87.1666, 91.5704,  
101.0822

 89.2747, 93.7699,  
108.0019

# Harmonies

## Analogous

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



84.4296, 72.4268, 16.3047



64.6414, 72.4268, 13.7048



49.1267, 72.4268, 20.9847

# Triad

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



64.6414, 72.4268, 13.7048



43.3718, 72.4268, 159.9823



108.4198, 72.4268, 128.2697

# Complementary

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



64.6414, 72.4268, 13.7048



20.2295, 12.0617, 87.6475

# 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.



93.2253, 72.4268, 196.9720



64.6414, 72.4268, 13.7048



55.2974, 72.4268, 220.4463

# Square

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



64.6414, 72.4268, 13.7048



38.4047, 72.4268, 91.7846



73.2155, 72.4268, 236.4353



112.1824, 72.4268, 67.2104



# Rectangle

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



64.6414, 72.4268, 13.7048



42.4608, 72.4268, 34.0293



73.2155, 72.4268, 236.4353



104.3590, 72.4268, 151.9386

# Sweetspot

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



64.6430, 72.4302, 13.7063



84.5415, 92.3189, 64.2848



40.0640, 22.2703, 8.6022



17.8162, 19.5402, 12.6231



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.



64.6430, 72.4302, 13.7063



68.9270, 76.5204, 11.5094



49.9653, 74.1605, 14.8138



17.7449, 18.9739, 17.5246



33.7496, 37.3848, 5.4372



3.0110, 3.3752, 0.4928



# Inverse Universe

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



20.2295, 12.0617, 87.6475



18.9783, 8.8357, 95.3129



26.1772, 13.3488, 87.5825



15.7324, 16.2291, 20.8459



9.1490, 4.0917, 46.8456



0.8525, 0.4565, 4.1334



# Previews

## White Background



This preview shows how the XYZ color 64.6414, 72.4268, 13.7048 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 64.6414, 72.4268, 13.7048 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 64.6414, 72.4268, 13.7048**

## **Background**



This preview shows how black text looks on a background with the XYZ color 64.6414, 72.4268, 13.7048.



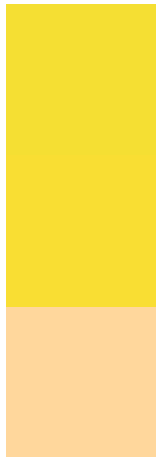
This preview shows how white text looks on a background with the XYZ color 64.6414, 72.4268,



# 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

64.6414, 72.4268, 13.7048

### Protanopia

65.7857, 72.6213, 13.6820

### Deuteranopia

71.5412, 72.2612, 41.6297



## Tritanopia

77.4950, 72.2427, 80.3808

# Trichromacy



## Original Color

64.6414, 72.4268, 13.7048

## Protanomaly

65.4302, 72.4380, 13.6654

## Deuteranomaly

68.1251, 71.9600, 27.4386

## Tritanomaly

70.2633, 71.1756, 43.7532

# Monochromacy



## Original Color

64.6414, 72.4268, 13.7048

## Achromatopsia

61.2578, 64.4480, 70.1838

## Achromatomaly

60.3994, 66.5559, 39.3689

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 64.6414, 72.4268, 13.7048 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(245, 223, 51)` looks like.

```
.text, #text, p{  
    color:rgb(245, 223, 51)  
}
```

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(245, 223, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(245, 223, 51) }
```

## Border

The CSS property to change the border of an element to XYZ 64.6414, 72.4268, 13.7048 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(245, 223, 51) }
```



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

```
.border{ border-color:rgb(245, 223, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(245, 223, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(245, 223, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(245, 223, 51);  
box-shadow:4px 4px 4px 4px rgb(245, 223,  
51) }
```

# Background

The CSS property to change the background color of an element to XYZ 64.6414, 72.4268, 13.7048 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(245, 223, 51) }
```

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

```
.background{ background-color: rgb(245,  
223, 51) }
```

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