

# Converting Colors

XYZ(67.1687, 72.2801, 13.1542)

Have a look what the booklet for  
XYZ(67.1687, 72.2801, 13.1542)  
contains.

<b>XYZ(67.1050, 72.1364, 13.1832)</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(67.1050, 72.1364,  
13.1832)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFDB30
RGB	255, 219, 48
RGB Percent	100%, 86%, 19%
CMY	0.0000, 0.1411, 0.8117
CMYK	0.00, 0.14, 0.81, 0.00
HSL	50°, 100%, 59%
HSV	50°, 81%, 100%
XYZ	67.1050, 72.1364, 13.1832
YIQ	210.2700, 76.3470, -45.5490

# Conversions

## Conversions Part 2

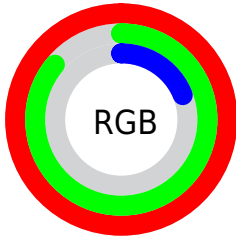
Format	Color
R <sub>Y</sub> B	92, 255, 48
Decimal	16767792
CIE Lab	88.03, -3.20, 80.43
CIE LCh	88, 80.490, 92.280
Yxy	72.1364, 0.4403, 0.4733
Android (android.graphics.Color)	4294957872 (0xFFFFDB30)
YUV	210.2700, -79.9991, 39.2282
Hunter-Lab	84.9332, -7.6016, 50.2503

# Details

The XYZ color **67.1050, 72.1364, 13.1832** is a light color, and the websafe version is hex **FFCC00**. The color can be described as light washed yellow. A complement of this color would be **22.4395, 14.1892, 96.1631**, and the grayscale version is **61.9125, 65.1368, 70.9340**.

A 20% lighter version of the original color is **79.8145, 93.9058, 28.6708**, and **35.7033, 38.3796, 5.5262** is the 20% darker color. If you saturate the color by 10%, you get **65.5812, 69.7033, 10.7826**, and if you desaturate by 10%, it is **68.9648, 74.7589, 17.1870**.

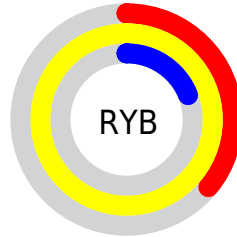
# Distribution



Red (100%)

Green (86%)

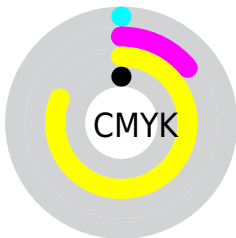
Blue (19%)



Red (36%)

Yellow (100%)

Blue (19%)

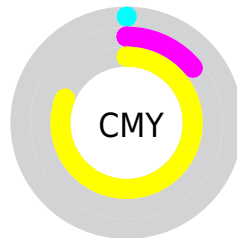


Cyan (0%)

Magenta (14%)

Yellow (81%)

Black (0%)



Cyan (0%)

Magenta (14%)

Yellow (81%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 67.1050, 72.1364, 13.1832 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 67.1050, 72.1364, 13.1832 by changing the saturation by 10% instead.



67.1050, 72.1364,  
13.1832

67.1050, 72.1364,  
13.1832

439.7450,  
468.0162, 223.3374

49.4410, 53.2701,  
7.4226

114.1198,  
122.2504, 32.3285

35.1854, 38.0184,  
3.6453

144.2013,  
154.2670, 46.5503

23.9729, 25.9970,  
1.4329

179.1527,  
191.4357, 64.4296

15.4381, 16.8214,  
0.1672

219.3393,  
234.1410, 86.3850

9.2158, 10.1072,  
0.0000

265.1265,  
282.7674, 112.8349

4.9404, 5.4701,  
0.0000

316.8796,

2.2467, 2.5256,

337.6991, 144.1979

0.0000

374.9640,  
399.3206, 180.8925

■ 0.7672, 0.8894,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 67.1050, 72.1364,  
13.1832

■ 67.1050, 72.1364,  
13.1832

■ 65.5812, 69.7033,  
10.7826

■ 68.9648, 74.7589,  
17.1870

■ 64.4493, 67.6791,  
9.6665

■ 71.2012, 77.5788,  
23.0278

■ 73.8536, 80.6152,  
30.9053

■ 76.9551, 83.8816,  
40.9921

■ 80.5352, 87.3903,  
53.4425

■ 84.6207, 91.1523,  
68.3969

■ 89.2364, 95.1778,  
85.9848

■ 94.4055, 99.4765,  
106.3265

■ 95.0497, 99.9998,  
108.9000

# Harmonies

## Analogous

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



87.2108, 72.1364, 17.2007



67.1050, 72.1364, 13.1832



50.6754, 72.1364, 18.7749

# Triad

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



67.1050, 72.1364, 13.1832



41.8463, 72.1364, 149.6294



106.7152, 72.1364, 138.7086

# Complementary

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



67.1050, 72.1364, 13.1832



22.4395, 14.1892, 96.1631

# 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.



90.2320, 72.1364, 206.1449



67.1050, 72.1364, 13.1832



52.7839, 72.1364, 214.2535

# Square

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



67.1050, 72.1364, 13.1832



37.8931, 72.1364, 82.8268



70.0429, 72.1364, 238.6532



112.4672, 72.1364, 74.4120



# Rectangle

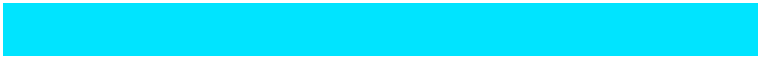
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



67.1050, 72.1364, 13.1832



43.3091, 72.1364, 29.9885



70.0429, 72.1364, 238.6532



102.1111, 72.1364, 162.6204

# Sweetspot

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



67.1066, 72.1399, 13.1846



83.4138, 90.0633, 63.9088



43.9749, 24.0456, 11.1184



17.5409, 18.9896, 12.5313



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.



67.1066, 72.1399, 13.1846



64.8229, 68.3587, 9.9977



57.3919, 82.6096, 15.7175



19.2767, 20.5216, 19.0894



33.7748, 35.5608, 5.0838



3.3560, 3.5974, 0.5175



# Inverse Universe

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



22.4395, 14.1892, 96.1631



19.3148, 9.6074, 95.4442



25.9888, 12.8821, 95.7238



17.2583, 17.8882, 22.7931



9.9825, 4.8745, 49.8493



1.0390, 0.6086, 4.8760



# Previews

## White Background



This preview shows how the XYZ color 67.1050, 72.1364, 13.1832 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 67.1050, 72.1364, 13.1832 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 67.1050, 72.1364, 13.1832

## Background



This preview shows how black text looks on a background with the XYZ color 67.1050, 72.1364, 13.1832.



This preview shows how white text looks on a background with the XYZ color 67.1050, 72.1364,



# 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

67.1050, 72.1364, 13.1832

### Protanopia

65.1222, 71.8911, 13.3498

### Deuteranopia

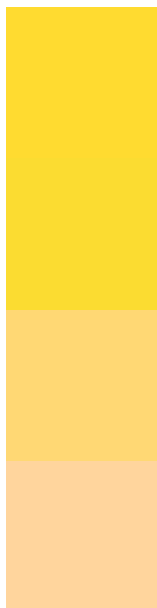
71.4568, 72.2274, 41.1855



## Tritanopia

76.9587, 72.0282, 77.5568

# Trichromacy



## Original Color

67.1050, 72.1364, 13.1832

## Protanomaly

65.9312, 71.9174, 13.3122

## Deuteranomaly

68.9483, 71.6327, 26.7155

## Tritanomaly

71.1201, 71.2828, 41.9088

# Monochromacy



## Original Color

67.1050, 72.1364, 13.1832

## Achromatopsia

61.2578, 64.4480, 70.1838

## Achromatomaly

60.7442, 65.9916, 38.8143

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 67.1050, 72.1364, 13.1832 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, 219, 48)` looks like.

```
.text, #text, p{  
    color:rgb(255, 219, 48)  
}
```

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, 219, 48) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 219, 48) }
```

## Border

The CSS property to change the border of an element to XYZ 67.1050, 72.1364, 13.1832 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, 219, 48) }
```



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

```
.border{ border-color:rgb(255, 219, 48) }
```

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

Here you see how a box with a 4 pixel rgb(255, 219, 48) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 219, 48); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 219, 48);  
box-shadow:4px 4px 4px 4px rgb(255, 219,  
48) }
```

# Background

The CSS property to change the background color of an element to XYZ 67.1050, 72.1364, 13.1832 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 219, 48) }
```

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

```
.background{ background-color: rgb(255,  
219, 48) }
```

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