

# Converting Colors

XYZ(66.2671, 70.4719, 12.8691)

Have a look what the booklet for  
XYZ(66.2671, 70.4719, 12.8691)  
contains.

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# **Color**

**XYZ(66.3294, 70.5851,  
12.9247)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFD830
RGB	255, 216, 48
RGB Percent	100%, 85%, 19%
CMY	0.0000, 0.1529, 0.8117
CMYK	0.00, 0.15, 0.81, 0.00
HSL	49°, 100%, 59%
HSV	49°, 81%, 100%
XYZ	66.3294, 70.5851, 12.9247
YIQ	208.5090, 77.1720, -43.9800

# Conversions

## Conversions Part 2

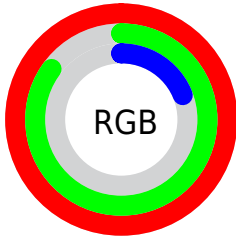
Format	Color
R <sub>Y</sub> B	96, 255, 48
Decimal	16767024
CIE Lab	87.28, -1.69, 79.78
CIE LCh	87, 79.800, 91.211
Yxy	70.5851, 0.4427, 0.4711
Android (android.graphics.Color)	4294957104 (0xFFFFD830)
YUV	208.5090, -79.1309, 40.7726
Hunter-Lab	84.0149, -6.1012, 49.6894

# Details

The XYZ color **66.3294, 70.5851, 12.9247** is a light color, and the websafe version is hex **FFCC33**. The color can be described as light washed yellow. A complement of this color would be **22.6774, 14.6650, 96.2426**, and the grayscale version is **60.7502, 63.9139, 69.6023**.

A 20% lighter version of the original color is **79.8145, 93.9058, 28.6708**, and **35.1685, 37.3100, 5.3480** is the 20% darker color. If you saturate the color by 10%, you get **64.7343, 68.0093, 10.5002**, and if you desaturate by 10%, it is **68.2657, 73.3605, 16.9540**.

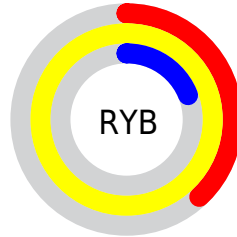
# Distribution



Red (100%)

Green (85%)

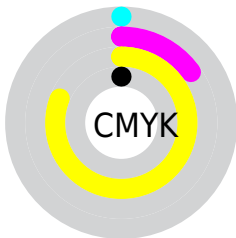
Blue (19%)



Red (38%)

Yellow (100%)

Blue (19%)

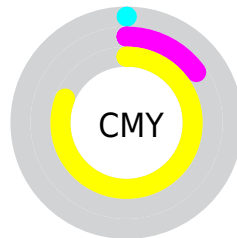


Cyan (0%)

Magenta (15%)

Yellow (81%)

Black (0%)



Cyan (0%)

Magenta (15%)

Yellow (81%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 66.3294, 70.5851, 12.9247 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 66.3294, 70.5851, 12.9247 by changing the saturation by 10% instead.



66.3294, 70.5851,  
12.9247

66.3294, 70.5851,  
12.9247

437.0241,  
462.6017, 221.6254

48.8085, 52.0037,  
7.2466

113.0141,  
120.0428, 31.8576

34.6815, 37.0080,  
3.5360

142.9086,  
151.6878, 45.9496

23.5830, 25.2137,  
1.3744

177.6585,  
188.4562, 63.6832

15.1477, 16.2363,  
0.1216

217.6289,  
230.7323, 85.4770

9.0101, 9.6915,  
0.0000

263.1853,  
278.9005, 111.7496

4.8049, 5.1949,  
0.0000

314.6931,

2.1668, 2.3621,

333.3452, 142.9195

0.0000

372.5176,  
394.4508, 179.4052

■ 0.7252, 0.8063,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 66.3294, 70.5851,  
12.9247

■ 66.3294, 70.5851,  
12.9247

■ 64.7343, 68.0093,  
10.5002

■ 68.2657, 73.3605,  
16.9540

■ 63.5436, 65.8676,  
9.3646

■ 70.5838, 76.3439,  
22.8220

■ 73.3232, 79.5543,  
30.7285

■ 76.5171, 83.0055,  
40.8462

■ 80.1950, 86.7098,  
53.3293

■ 84.3838, 90.6783,  
68.3182

■ 89.1084, 94.9215,  
85.9423

■ 94.3919, 99.4491,  
106.3222

■ 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.



86.0064, 70.5851, 17.2106



66.3294, 70.5851, 12.9247



50.0767, 70.5851, 18.0285

# Triad

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



66.3294, 70.5851, 12.9247



40.7219, 70.5851, 143.7921



103.9345, 70.5851, 138.1252

# Complementary

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



66.3294, 70.5851, 12.9247



22.6774, 14.6650, 96.2426

# 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.



87.5744, 70.5851, 203.4199



66.3294, 70.5851, 12.9247



51.1713, 70.5851, 207.6270

# Square

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



66.3294, 70.5851, 12.9247



37.0975, 70.5851, 79.0597



67.8544, 70.5851, 233.3487



110.0087, 70.5851, 74.6920



# Rectangle

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



66.3294, 70.5851, 12.9247



42.7141, 70.5851, 28.5986



67.8544, 70.5851, 233.3487



99.3220, 70.5851, 161.4538

# Sweetspot

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



66.3310, 70.5885, 12.9261



83.1470, 89.5297, 63.8199



44.1173, 24.1025, 11.8679



17.4759, 18.8596, 12.5096



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.



66.3310, 70.5885, 12.9261



63.9366, 66.5861, 9.7023



58.2608, 83.0576, 15.7582



19.2532, 20.4747, 19.0816



33.3072, 34.6257, 4.9279



3.3146, 3.5145, 0.5037



# Inverse Universe

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



22.6774, 14.6650, 96.2426



19.4764, 9.9306, 95.4980



25.5507, 12.6563, 95.7034



17.2798, 17.9313, 22.8003



10.0632, 5.0360, 49.8762



1.0499, 0.6305, 4.8796



# Previews

## White Background



This preview shows how the XYZ color 66.3294, 70.5851, 12.9247 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

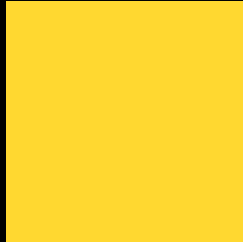
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 66.3294, 70.5851, 12.9247 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 66.3294, 70.5851, 12.9247**

## **Background**



This preview shows how black text looks on a background with the XYZ color 66.3294, 70.5851, 12.9247.



This preview shows how white text looks on a background with the XYZ color 66.3294, 70.5851,



# 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

66.3294, 70.5851, 12.9247

### Protanopia

63.8919, 70.4776, 13.1418

### Deuteranopia

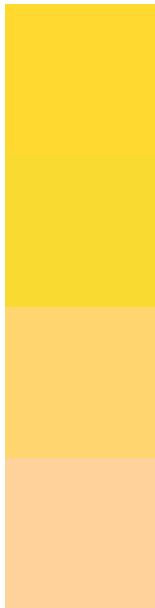
70.0499, 70.4536, 37.5106



## Tritanopia

75.8357, 70.4124, 75.2396

# Trichromacy



## Original Color

66.3294, 70.5851, 12.9247

## Protanomaly

64.6927, 70.5043, 13.1047

## Deuteranomaly

67.9035, 69.9962, 24.9706

## Tritanomaly

70.2873, 69.7535, 41.2117

# Monochromacy



## Original Color

66.3294, 70.5851, 12.9247

## Achromatopsia

60.6036, 63.7597, 69.4343

## Achromatomaly

60.4125, 65.4577, 38.3047

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 66.3294, 70.5851, 12.9247 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, 48)` looks like.

```
.text, #text, p{  
    color:rgb(255, 216, 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, 216, 48) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 216, 48) }
```

## Border

The CSS property to change the border of an element to XYZ 66.3294, 70.5851, 12.9247 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, 48) }
```



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

```
.border{ border-color:rgb(255, 216, 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, 216, 48)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 216, 48); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 216, 48);  
box-shadow:4px 4px 4px 4px rgb(255, 216,  
48) }
```

# Background

The CSS property to change the background color of an element to XYZ 66.3294, 70.5851, 12.9247 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, 48) }
```

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

```
.background{ background-color: rgb(255,  
216, 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](#).

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