

# Converting Colors

XYZ(66.7926, 71.4091, 13.3950)

Have a look what the booklet for  
XYZ(66.7926, 71.4091, 13.3950)  
contains.

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# **Color**

**XYZ(66.9089, 71.6418,  
13.4337)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFDA33
RGB	255, 218, 51
RGB Percent	100%, 85%, 20%
CMY	0.0000, 0.1451, 0.8000
CMYK	0.00, 0.15, 0.80, 0.00
HSL	49°, 100%, 60%
HSV	49°, 80%, 100%
XYZ	66.9089, 71.6418, 13.4337
YIQ	210.0250, 75.6590, -44.0930

# Conversions

## Conversions Part 2

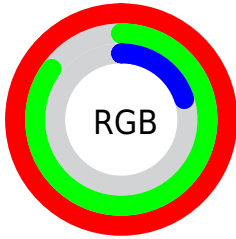
Format	Color
R <sub>YB</sub>	96, 255, 51
Decimal	16767539
CIE Lab	87.80, -2.61, 79.39
CIE LCh	88, 79.436, 91.882
Yxy	71.6418, 0.4402, 0.4714
Android (android.graphics.Color)	4294957619 (0xFFFFDA33)
YUV	210.0250, -78.3993, 39.4431
Hunter-Lab	84.6415, -7.0187, 49.8389

# Details

The XYZ color **66.9089, 71.6418, 13.4337** 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 **22.9051, 14.9032, 96.2763**, and the grayscale version is **61.7409, 64.9563, 70.7374**.

A 20% lighter version of the original color is **79.9246, 93.9499, 29.2509**, and **35.5236, 38.0203, 5.4663** is the 20% darker color. If you saturate the color by 10%, you get **65.3113, 69.1135, 10.8466**, and if you desaturate by 10%, it is **68.8511, 74.3671, 17.6557**.

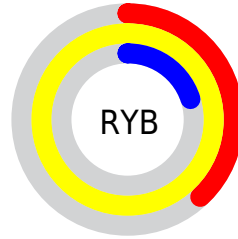
# Distribution



Red (100%)

Green (85%)

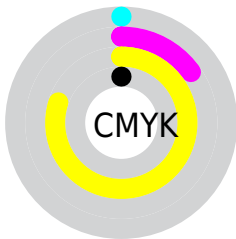
Blue (20%)



Red (38%)

Yellow (100%)

Blue (20%)

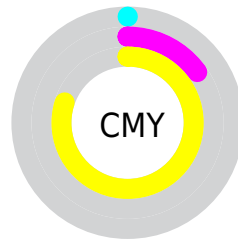


Cyan (0%)

Magenta (15%)

Yellow (80%)

Black (0%)



Cyan (0%)

Magenta (15%)

Yellow (80%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 66.9089, 71.6418, 13.4337 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 66.9089, 71.6418, 13.4337 by changing the saturation by 10% instead.



66.9089, 71.6418,  
13.4337

66.9089, 71.6418,  
13.4337

439.0580,  
466.2939, 224.9834

49.2810, 52.8661,  
7.5936

113.8404,  
121.5471, 32.7833

35.0579, 37.6959,  
3.7520

143.8747,  
153.4456, 47.1299

23.8742, 25.7468,  
1.4903

178.7752,  
190.4870, 65.1492

15.3646, 16.6343,  
0.2107

218.9072,  
233.0560, 87.2596

9.1636, 9.9741,  
0.0000

264.6362,  
281.5367, 113.8796

4.9060, 5.3818,  
0.0000

316.3274,

2.2264, 2.4730,

336.3137, 145.4279

0.0000

374.3462,  
397.7713, 182.3230

■ 0.7566, 0.8631,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 66.9089, 71.6418,  
13.4337

■ 66.9089, 71.6418,  
13.4337

■ 65.3113, 69.1135,  
10.8466

■ 68.8511, 74.3671,  
17.6557

■ 63.9809, 66.7423,  
9.5106

■ 71.1772, 77.2972,  
23.7405

■ 63.9806, 66.7417,  
9.5103

■ 73.9262, 80.4507,  
31.8844

■ 77.1306, 83.8413,  
42.2576

■ 80.8196, 87.4808,  
55.0124

■ 85.0199, 91.3805,  
70.2879

■ 89.7559, 95.5505,  
88.2123

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.



86.6572, 71.6418, 17.5761



66.9089, 71.6418, 13.4337



50.6766, 71.6418, 18.8701

# Triad

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



66.9089, 71.6418, 13.4337



41.7050, 71.6418, 146.7384



105.3541, 71.6418, 137.9154

# Complementary

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



66.9089, 71.6418, 13.4337



22.9051, 14.9032, 96.2763

# 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.



89.1032, 71.6418, 203.6319



66.9089, 71.6418, 13.4337



52.3903, 71.6418, 210.1696

# Square

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



66.9089, 71.6418, 13.4337



37.8951, 71.6418, 81.4679



69.2918, 71.6418, 234.6944



111.1575, 71.6418, 74.6431



# Rectangle

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



66.9089, 71.6418, 13.4337



43.3584, 71.6418, 29.8499



69.2918, 71.6418, 234.6944



100.8005, 71.6418, 161.2988

# Sweetspot

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



66.9105, 71.6453, 13.4351



83.2763, 89.7884, 63.8630



44.2021, 24.3394, 11.6891



17.5074, 18.9226, 12.5201



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.



66.9105, 71.6453, 13.4351



64.4928, 67.6762, 9.9566



57.6930, 82.7574, 16.0658



19.2646, 20.4974, 19.0854



33.5329, 35.0770, 5.0032



3.3346, 3.5546, 0.5103



# Inverse Universe

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



22.9051, 14.9032, 96.2763



19.5246, 9.9796, 95.5049



26.3840, 13.2741, 95.7785



17.2694, 17.9103, 22.7968



10.0232, 4.9560, 49.8629



1.0445, 0.6197, 4.8778



# Previews

## White Background



This preview shows how the XYZ color 66.9089, 71.6418, 13.4337 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 66.9089, 71.6418, 13.4337 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 66.9089, 71.6418, 13.4337**

## **Background**



This preview shows how black text looks on a background with the XYZ color 66.9089, 71.6418, 13.4337.



This preview shows how white text looks on a background with the XYZ color 66.9089, 71.6418,



# 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

66.9089, 71.6418, 13.4337

### Protanopia

65.1877, 71.9173, 13.6945

### Deuteranopia

71.0363, 71.6530, 40.2234



## Tritanopia

76.5821, 71.4862, 76.7797

# Trichromacy



## Original Color

66.9089, 71.6418, 13.4337

## Protanomaly

65.9967, 71.9436, 13.6569

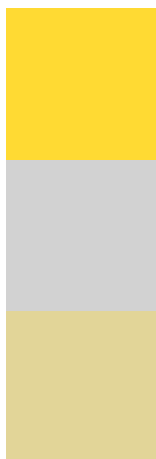
## Deuteranomaly

68.6928, 71.1218, 26.6304

## Tritanomaly

70.9550, 70.8156, 42.2768

# Monochromacy



## Original Color

66.9089, 71.6418, 13.4337

## Achromatopsia

61.2578, 64.4480, 70.1838

## Achromatomaly

60.8258, 66.0242, 39.2439

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 66.9089, 71.6418, 13.4337 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, 218, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 218, 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(255, 218, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 218, 51) }
```

## Border

The CSS property to change the border of an element to XYZ 66.9089, 71.6418, 13.4337 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, 218, 51) }
```



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

```
.border{ border-color:rgb(255, 218, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 218, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 218, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 218, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 218,  
51) }
```

# Background

The CSS property to change the background color of an element to XYZ 66.9089, 71.6418, 13.4337 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 218, 51) }
```

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

```
.background{ background-color: rgb(255,  
218, 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](#).

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