

# Converting Colors

XYZ(67.9702, 74.7204, 10.8401)

Have a look what the booklet for  
XYZ(67.9702, 74.7204, 10.8401)  
contains.

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# **Color**

**XYZ(67.8957, 74.5713,  
10.8152)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFE000
RGB	255, 224, 0
RGB Percent	100%, 88%, 0%
CMY	0.0000, 0.1215, 0.9999
CMYK	0.00, 0.12, 1.00, 0.00
HSL	53°, 100%, 50%
HSV	53°, 100%, 100%
XYZ	67.8957, 74.5713, 10.8152
YIQ	207.7330, 90.3800, -63.0920

# Conversions

## Conversions Part 2

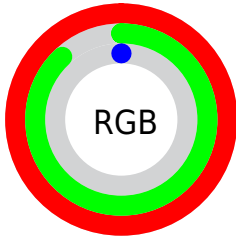
Format	Color
R <sub>Y</sub> B	35, 255, 0
Decimal	16769024
CIE Lab	89.19, -6.45, 88.74
CIE LCh	89, 88.976, 94.157
Yxy	74.5713, 0.4429, 0.4865
Android (android.graphics.Color)	4294959104 (0xFFFFE000)
YUV	207.7330, -102.4124, 41.4532
Hunter-Lab	86.3547, -10.7764, 53.0227

# Details

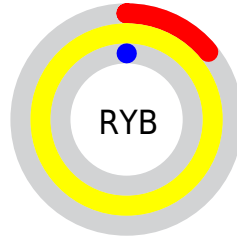
The XYZ color **67.8957, 74.5713, 10.8152** is a light color, and the websafe version is hex **FFCC00**. The color can be described as light saturated yellow. A complement of this color would be **18.5408, 8.2013, 95.2129**, and the grayscale version is **60.3867, 63.5315, 69.1858**.

A 20% lighter version of the original color is **78.8455, 93.5182, 23.5681**, and **36.1803, 39.7134, 5.7585** is the 20% darker color. If you saturate the color by 10%, you get **67.8962, 74.5729, 10.8155**, and if you desaturate by 10%, it is **68.9192, 76.3288, 12.0505**.

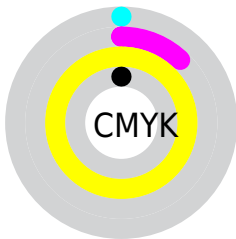
# Distribution



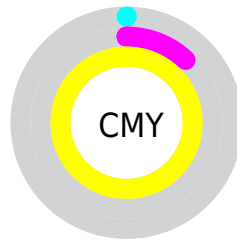
- Red (100%)
- Green (88%)
- Blue (0%)



- Red (14%)
- Yellow (100%)
- Blue (0%)



- Cyan (0%)
- Magenta (12%)
- Yellow (100%)
- Black (0%)




- Cyan (0%)
- Magenta (12%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 67.8957, 74.5713, 10.8152 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 67.8957, 74.5713, 10.8152 by changing the saturation by 10% instead.





 67.8957, 74.5713,  
10.8152


 67.8957, 74.5713,  
10.8152


442.5089,  
476.4428, 207.0870

 50.0863, 55.2618,  
5.8301


 115.2457,  
125.7053, 27.9493

 35.7000, 39.6113,  
2.6749


 145.5169,  
158.2986, 40.9355


 24.3716, 27.2356,  
0.9308


 180.6727,  
196.0886, 57.4257

 15.7358, 17.7503,  
0.0000

 221.0786,  
239.4597, 77.8385

 9.4270, 10.7708,  
0.0000

 267.0997,  
288.7962, 102.5925

 5.0801, 5.9130,  
0.0000

 319.1016,

 2.3296, 2.7922,

344.4827, 132.1063

0.0000

377.4496,  
406.9034, 166.7982

■ 0.8097, 1.0242,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 67.8957, 74.5713,  
10.8152

■ 67.8957, 74.5713,  
10.8152

■ 67.8962, 74.5729,  
10.8155

■ 68.9192, 76.3288,  
12.0505

■ 70.1921, 78.2075,  
14.5315

■ 71.7883, 80.2401,  
18.6387

■ 73.7517, 82.4443,  
24.6043

■ 76.1196, 84.8351,  
32.6230

■ 78.9243, 87.4254,  
42.8649

■ 82.1947, 90.2272,  
55.4822

■ 85.9574, 93.2510,  
70.6141

■ 90.2367, 96.5067,  
88.3885

# Harmonies

## Analogous

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



90.6665, 74.5713, 14.1429



67.8957, 74.5713, 10.8152



49.9364, 74.5713, 17.0206

# Triad

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



67.8957, 74.5713, 10.8152



41.6528, 74.5713, 168.4695



115.4539, 74.5713, 145.2197

# Complementary

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



67.8957, 74.5713, 10.8152



18.5408, 8.2013, 95.2129

# 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.



96.9817, 74.5713, 225.6590



67.8957, 74.5713, 10.8152



54.2007, 74.5713, 243.2204

# Square

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



67.8957, 74.5713, 10.8152



36.8751, 74.5713, 90.1703



73.9459, 74.5713, 268.2110



121.1707, 74.5713, 72.8368



# Rectangle

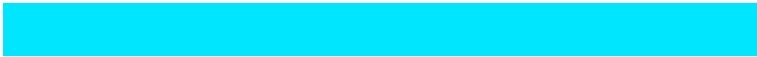
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



67.8957, 74.5713, 10.8152



42.1487, 74.5713, 29.3972



73.9459, 74.5713, 268.2110



110.3681, 74.5713, 173.1973

# Sweetspot

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



67.8974, 74.5749, 10.8167



82.1911, 90.2243, 55.4663



41.5292, 21.3762, 3.4525



17.2847, 19.0532, 10.6697



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.



67.8974, 74.5749, 10.8167



67.8967, 74.5733, 10.8156



50.5610, 79.1498, 12.6135



19.3617, 20.6915, 19.1177



35.5519, 39.1151, 5.6762



3.5123, 3.9101, 0.5696



# Inverse Universe

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



18.5408, 8.2013, 95.2129



18.5399, 8.1998, 95.2133



22.6171, 9.5749, 95.2632



17.1808, 17.7333, 22.7673



9.7428, 4.3953, 49.7694



1.0024, 0.5355, 4.8638



# Previews

## White Background



This preview shows how the XYZ color 67.8957, 74.5713, 10.8152 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

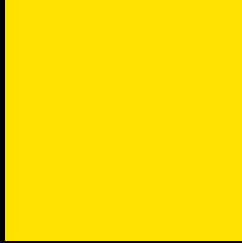
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 67.8957, 74.5713, 10.8152 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 67.8957, 74.5713, 10.8152**

## **Background**



This preview shows how black text looks on a background with the XYZ color 67.8957, 74.5713, 10.8152.



This preview shows how white text looks on a background with the XYZ color 67.8957, 74.5713,



# 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

67.8957, 74.5713, 10.8152

### Protanopia

67.4551, 74.7418, 10.9862

### Deuteranopia

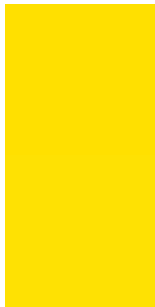
73.4545, 74.6762, 46.6189



## Tritanopia

78.4888, 74.2303, 80.7121

# Trichromacy



## Original Color

67.8957, 74.5713, 10.8152

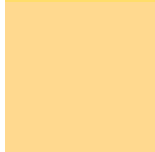
## Protanomaly

67.8147, 74.9278, 10.9744



## Deuteranomaly

69.6980, 74.0135, 24.2482



## Tritanomaly

71.0108, 72.8689, 36.3090

# Monochromacy



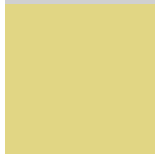
## Original Color

67.8957, 74.5713, 10.8152



## Achromatopsia

59.9535, 63.0757, 68.6895



## Achromatomaly

59.2628, 65.7666, 31.4005

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 67.8957, 74.5713, 10.8152 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, 224, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 224, 0)  
}
```

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, 224, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 224, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 67.8957, 74.5713, 10.8152 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, 224, 0) }
```



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

```
.border{ border-color:rgb(255, 224, 0) }
```

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

Here you see how a box with a 4 pixel rgb(255, 224, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 224, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 224, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 224,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 67.8957, 74.5713, 10.8152 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 224, 0) }
```

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

```
.background{ background-color: rgb(255,  
224, 0) }
```

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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