

# Converting Colors

XYZ(68.7027, 75.2294, 14.0317)

Have a look what the booklet for  
XYZ(68.7027, 75.2294, 14.0317)  
contains.

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# **Color**

**XYZ(68.7628, 75.3494,  
14.0517)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFE133
RGB	255, 225, 51
RGB Percent	100%, 88%, 20%
CMY	0.0000, 0.1176, 0.8000
CMYK	0.00, 0.12, 0.80, 0.00
HSL	51°, 100%, 60%
HSV	51°, 80%, 100%
XYZ	68.7628, 75.3494, 14.0517
YIQ	214.1340, 73.7340, -47.7540

# Conversions

## Conversions Part 2

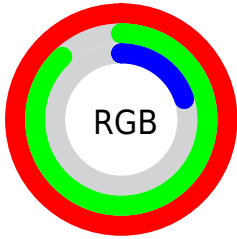
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	86, 255, 51
Decimal	16769331
CIE Lab	89.56, -6.13, 80.92
CIE LCh	90, 81.156, 94.330
Yxy	75.3494, 0.4348, 0.4764
Android (android.graphics.Color)	4294959411 (0xFFFFE133)
YUV	214.1340, -80.4251, 35.8395
Hunter-Lab	86.8040, -10.5063, 51.1651

# Details

The XYZ color **68.7628, 75.3494, 14.0517** 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 **22.3580, 13.8089, 96.0942**, and the grayscale version is **64.4989, 67.8579, 73.8972**.

A 20% lighter version of the original color is **79.9806, 93.9723, 29.5458**, and **36.6229, 40.2188, 5.8328** is the 20% darker color. If you saturate the color by 10%, you get **67.3453, 73.1812, 11.5246**, and if you desaturate by 10%, it is **70.5138, 77.6924, 18.2101**.

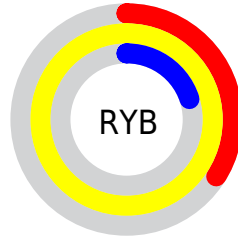
# Distribution



Red (100%)

Green (88%)

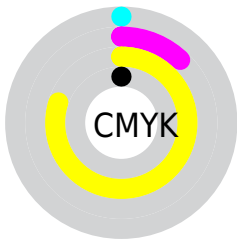
Blue (20%)



Red (34%)

Yellow (100%)

Blue (20%)

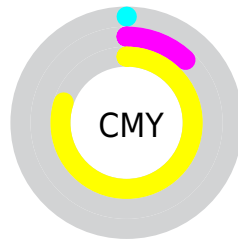


Cyan (0%)

Magenta (12%)

Yellow (80%)

Black (0%)



Cyan (0%)

Magenta (12%)


Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 68.7628, 75.3494, 14.0517 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 68.7628, 75.3494, 14.0517 by changing the saturation by 10% instead.





 68.7628, 75.3494,  
14.0517

 68.7628, 75.3494,  
14.0517


445.5284,  
479.1176, 228.9918


 50.7945, 55.8992,  
8.0175


 116.4786,  
126.8068, 33.8992


 36.2655, 40.1221,  
4.0182


 146.9569,  
159.5828, 48.5495


 24.8103, 27.6338,  
1.6353


 182.3358,  
197.5695, 66.9090

 16.0638, 18.0498,  
0.3158

 222.9808,  
241.1514, 89.3961

 9.6604, 10.9857,  
0.0000

 269.2572,  
290.7127, 116.4294

 5.2349, 6.0572,  
0.0000

321.5304,

 2.4219, 2.8799,

346.6379, 148.4274

0.0000

380.1657,  
409.3114, 185.8087

■ 0.8561, 1.0694,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 68.7628, 75.3494,  
14.0517

■ 68.7628, 75.3494,  
14.0517

■ 67.3453, 73.1812,  
11.5246

■ 70.5138, 77.6924,  
18.2101

■ 66.1839, 71.1480,  
10.2449

■ 72.6375, 80.2174,  
24.2275

■ 66.1835, 71.1474,  
10.2446

■ 75.1725, 82.9430,  
32.3002

■ 78.1513, 85.8824,  
42.5983

■ 81.6031, 89.0474,  
55.2742

■ 85.5543, 92.4489,  
70.4668

■ 90.0294, 96.0969,  
88.3044

95.0498, 99.9999,  
108.9000

# Harmonies

## Analogous

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



89.5344, 75.3494, 17.5520



68.7628, 75.3494, 14.0517



52.1058, 75.3494, 20.6860

# Triad

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



68.7628, 75.3494, 14.0517



44.4025, 75.3494, 160.8108



112.0089, 75.3494, 139.3633

# Complementary

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



68.7628, 75.3494, 14.0517



22.3580, 13.8089, 96.0942

# 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.



95.4770, 75.3494, 210.1529



68.7628, 75.3494, 14.0517



56.2658, 75.3494, 226.0505

# Square

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



68.7628, 75.3494, 14.0517



39.7972, 75.3494, 90.6111



74.5498, 75.3494, 247.3615



117.0311, 75.3494, 74.0322



# Rectangle

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



68.7628, 75.3494, 14.0517



44.7774, 75.3494, 33.2418



74.5498, 75.3494, 247.3615



107.4801, 75.3494, 164.1274

# Sweetspot

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



68.7645, 75.3530, 14.0532



83.9115, 91.0587, 64.0747



43.9320, 24.2315, 10.2661



17.6623, 19.2324, 12.5718



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.



68.7645, 75.3530, 14.0532



66.6293, 71.9492, 10.6687



56.0296, 81.9000, 15.9881



19.3202, 20.6086, 19.1039



34.6692, 37.3496, 5.3819



3.4349, 3.7552, 0.5438



# Inverse Universe

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



22.3580, 13.8089, 96.0942



19.1622, 9.2549, 95.3842



27.3176, 13.7555, 95.8225



17.2185, 17.8086, 22.7798



9.8496, 4.6088, 49.8050



1.0201, 0.5708, 4.8697



# Previews

## White Background



This preview shows how the XYZ color 68.7628, 75.3494, 14.0517 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

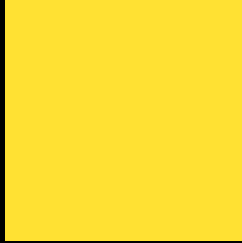
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 68.7628, 75.3494, 14.0517 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 68.7628, 75.3494, 14.0517**

## **Background**



This preview shows how black text looks on a background with the XYZ color 68.7628, 75.3494, 14.0517.



This preview shows how white text looks on a background with the XYZ color 68.7628, 75.3494,



# 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

68.7628, 75.3494, 14.0517

### Protanopia

68.3019, 75.5144, 14.1078

### Deuteranopia

74.0889, 75.3487, 48.6691



## Tritanopia

79.2679, 75.3519, 82.3180

# Trichromacy



## Original Color

68.7628, 75.3494, 14.0517

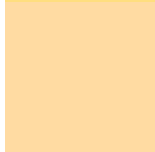
## Protanomaly

68.6669, 75.7026, 14.1249



## Deuteranomaly

71.1920, 75.0349, 30.8096



## Tritanomaly

73.0931, 74.5317, 44.7160

# Monochromacy



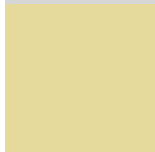
## Original Color

68.7628, 75.3494, 14.0517



## Achromatopsia

63.9157, 67.2443, 73.2291



## Achromatomaly

63.3009, 69.1674, 41.0247

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 68.7628, 75.3494, 14.0517 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, 225, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 225, 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, 225, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 225, 51) }
```

## Border

The CSS property to change the border of an element to XYZ 68.7628, 75.3494, 14.0517 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, 225, 51) }
```



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

```
.border{ border-color:rgb(255, 225, 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, 225, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 225, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 225, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 225,  
51) }
```

# Background

The CSS property to change the background color of an element to XYZ 68.7628, 75.3494, 14.0517 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 225, 51) }
```

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

```
.background{ background-color: rgb(255,  
225, 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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