

# Converting Colors

XYZ(69.5067, 68.2277, 13.7417)

Have a look what the booklet for  
XYZ(69.5067, 68.2277, 13.7417)  
contains.

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# **Color**

**XYZ(63.8869, 65.2489,  
13.5021)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFCD3C
RGB	255, 205, 60
RGB Percent	100%, 80%, 24%
CMY	0.0000, 0.1961, 0.7647
CMYK	0.00, 0.20, 0.76, 0.00
HSL	45°, 100%, 62%
HSV	45°, 76%, 100%
XYZ	63.8869, 65.2489, 13.5021
YIQ	203.4200, 76.3450, -34.4950

# Conversions

## Conversions Part 2

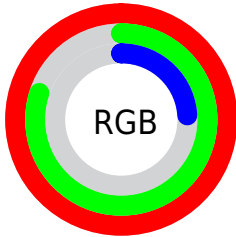
Format	Color
<a href="#">RYB</a>	<a href="#">127, 255, 60</a>
Decimal	<a href="#">16764220</a>
<a href="#">CIELab</a>	<a href="#">84.61, 4.32, 73.73</a>
<a href="#">CIElCh</a>	<a href="#">85, 73.861, 86.651</a>
<a href="#">Yxy</a>	<a href="#">65.2489, 0.4479, 0.4574</a>
<a href="#">Android (android.graphics.Color)</a>	<a href="#">4294954300 (0xFFFFCD3C)</a>
<a href="#">YUV</a>	<a href="#">203.4200, -70.7061, 45.2357</a>
<a href="#">Hunter-Lab</a>	<a href="#">80.7768, -0.1826, 46.6332</a>

# Details

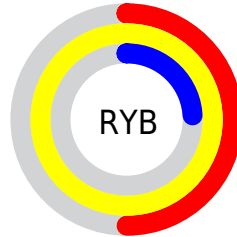
The XYZ color **63.8869, 65.2489, 13.5021** is a light color, and the websafe version is hex **FFCC33**. The color can be described as light washed yellow. A complement of this color would be **25.4893, 19.3321, 96.9950**, and the grayscale version is **57.4282, 60.4189, 65.7962**.

A 20% lighter version of the original color is **80.2109, 94.0644, 30.7583**, and **33.3147, 33.6026, 4.7301** is the 20% darker color. If you saturate the color by 10%, you get **61.8373, 61.9813, 10.2563**, and if you desaturate by 10%, it is **66.3293, 68.7833, 18.4806**.

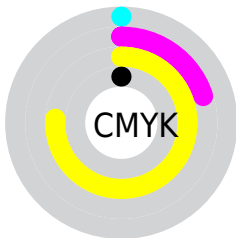
# Distribution



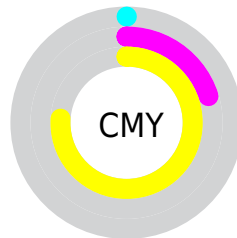
- Red (100%)
- Green (80%)
- Blue (24%)



- Red (50%)
- Yellow (100%)
- Blue (24%)



- Cyan (0%)
- Magenta (20%)
- Yellow (76%)
- Black (0%)




- Cyan (0%)
- Magenta (20%)
- Yellow (76%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 63.8869, 65.2489, 13.5021 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 63.8869, 65.2489, 13.5021 by changing the saturation by 10% instead.





 63.8869, 65.2489,  
13.5021

 63.8869, 65.2489,  
13.5021


428.3898,  
443.6859, 225.4307


 46.8204, 47.6629,  
7.6404


 109.5227,  
112.4076, 32.9072


 33.1011, 33.5600,  
3.7813


 138.8227,  
142.7492, 47.2878


 22.3635, 22.5558,  
1.5061


 172.9313,  
178.1114, 65.3450

 14.2423, 14.2659,  
0.2225

 212.2137,  
218.8786, 87.4975

 8.3722, 8.3058,  
0.0000

 257.0355,  
265.4353, 114.1638

 4.3878, 4.2912,  
0.0000

307.7618,

 1.9238, 1.8378,

318.1658, 145.7624

0.0000

364.7581,  
377.4545, 182.7118

■ 0.5906, 0.5106,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 63.8869, 65.2489,  
13.5021

■ 63.8869, 65.2489,  
13.5021

■ 61.8373, 61.9813,  
10.2563

■ 66.3293, 68.7833,  
18.4806

■ 60.1236, 58.9488,  
8.4680

■ 69.2019, 72.5931,  
25.4050

■ 59.5715, 57.9235,  
8.0406

■ 72.5421, 76.6969,  
34.4619

■ 76.3817, 81.1086,  
45.8146

■ 80.7493, 85.8410,  
59.6108

■ 85.6713, 90.9057,  
75.9853

■ 91.1720, 96.3135,  
95.0635

95.0496, 99.9998,  
108.9000

# Harmonies

## Analogous

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



81.1189, 65.2489, 19.0042



63.8869, 65.2489, 13.5021



48.8620, 65.2489, 16.8869

# Triad

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



63.8869, 65.2489, 13.5021



37.7886, 65.2489, 120.0201



92.4310, 65.2489, 133.5230

# Complementary

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



63.8869, 65.2489, 13.5021



25.4893, 19.3321, 96.9950

# 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.



77.3439, 65.2489, 186.9349



63.8869, 65.2489, 13.5021



46.1774, 65.2489, 177.0107

# Square

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



63.8869, 65.2489, 13.5021



35.4575, 65.2489, 65.8738



60.1842, 65.2489, 205.6045



99.3335, 65.2489, 76.4799



# Rectangle

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



63.8869, 65.2489, 13.5021



41.7107, 65.2489, 25.1837



60.1842, 65.2489, 205.6045



88.0312, 65.2489, 153.3213

# Sweetspot

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



63.8884, 65.2521, 13.5034



82.3930, 87.5601, 64.9919



45.7806, 25.6621, 17.8707



17.2695, 18.3585, 12.7128



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.



63.8884, 65.2521, 13.5034



60.8522, 60.2766, 9.1079



63.0118, 85.4741, 17.4528



19.1439, 20.2559, 19.0451



31.2542, 30.5196, 4.2436



3.1309, 3.1473, 0.4425



# Inverse Universe

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



25.4893, 19.3321, 96.9950



21.2555, 13.1906, 96.0335



25.5511, 13.4861, 95.8633



17.3815, 18.1346, 22.8342



10.5312, 5.9719, 50.0322



1.1087, 0.7482, 4.8992



# Previews

## White Background



This preview shows how the XYZ color 63.8869, 65.2489, 13.5021 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 63.8869, 65.2489, 13.5021 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 63.8869, 65.2489, 13.5021**

## **Background**



This preview shows how black text looks on a background with the XYZ color 63.8869, 65.2489, 13.5021.



This preview shows how white text looks on a background with the XYZ color 63.8869, 65.2489,



# 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

63.8869, 65.2489, 13.5021

### Protanopia

59.3380, 65.4393, 14.0610

### Deuteranopia

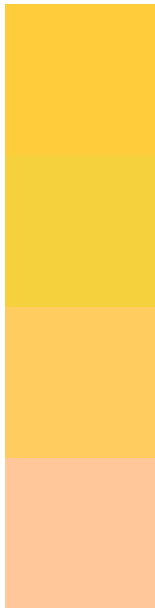
65.6904, 65.2097, 25.3441



## Tritanopia

72.2424, 65.2448, 67.8174

# Trichromacy



## Original Color

63.8869, 65.2489, 13.5021

## Protanomaly

60.9510, 65.1709, 13.7817

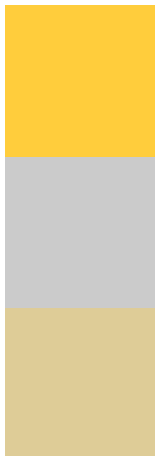
## Deuteranomaly

64.8984, 65.2720, 20.0047

## Tritanomaly

67.4962, 64.4399, 39.4526

# Monochromacy



## Original Color

63.8869, 65.2489, 13.5021

## Achromatopsia

56.7640, 59.7202, 65.0353

## Achromatomaly

57.3030, 60.9497, 38.0224

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 63.8869, 65.2489, 13.5021 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, 205, 60)` looks like.

```
.text, #text, p{  
    color:rgb(255, 205, 60)  
}
```

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, 205, 60) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 205, 60) }
```

## Border

The CSS property to change the border of an element to XYZ 63.8869, 65.2489, 13.5021 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, 205, 60) }
```



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

```
.border{ border-color:rgb(255, 205, 60) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 205, 60)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 205, 60); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 205, 60);  
box-shadow:4px 4px 4px 4px rgb(255, 205,  
60) }
```

# Background

The CSS property to change the background color of an element to XYZ 63.8869, 65.2489, 13.5021 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 205, 60) }
```

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

```
.background{ background-color: rgb(255,  
205, 60) }
```

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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