

# Converting Colors

XYZ(63.8641, 66.5082, 9.4714)

Have a look what the booklet for  
XYZ(63.8641, 66.5082, 9.4714)  
contains.

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# Color

**XYZ(63.7959, 66.3718,  
9.4486)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFD000
RGB	255, 208, 0
RGB Percent	100%, 82%, 0%
CMY	0.0000, 0.1843, 0.9999
CMYK	0.00, 0.18, 1.00, 0.00
HSL	49°, 100%, 50%
HSV	49°, 100%, 100%
XYZ	63.7959, 66.3718, 9.4486
YIQ	198.3410, 94.7800, -54.7240

# Conversions

## Conversions Part 2

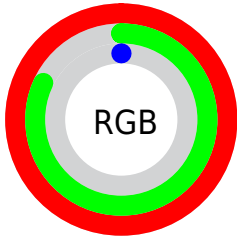
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	58, 255, 0
Decimal	16764928
CIE Lab	85.19, 1.63, 85.91
CIE LCh	85, 85.928, 88.911
Yxy	66.3718, 0.4569, 0.4754
Android (android.graphics.Color)	4294955008 (0xFFFFD000)
YUV	198.3410, -97.7821, 49.6899
Hunter-Lab	81.4689, -2.7924, 50.1519

# Details

The XYZ color **63.7959, 66.3718, 9.4486** 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 **19.0674, 9.2545, 95.3883**, and the grayscale version is **54.4241, 57.2584, 62.3544**.

A 20% lighter version of the original color is **78.7203, 93.4681, 22.9090**, and **33.5479, 34.4487, 4.8811** is the 20% darker color. If you saturate the color by 10%, you get **63.7961, 66.3728, 9.4488**, and if you desaturate by 10%, it is **65.1414, 68.7734, 10.7909**.

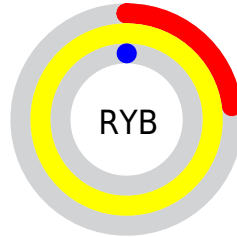
# Distribution



Red (100%)

Green (82%)

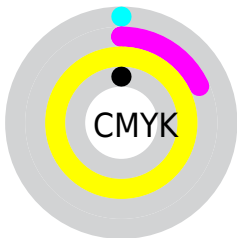
Blue (0%)



Red (23%)

Yellow (100%)

Blue (0%)

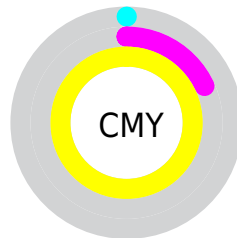


Cyan (0%)

Magenta (18%)

Yellow (100%)

Black (0%)



Cyan (0%)

Magenta (18%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 63.7959, 66.3718, 9.4486 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 63.7959, 66.3718, 9.4486 by changing the saturation by 10% instead.




 63.7959, 66.3718,  
9.4486


 63.7959, 66.3718,  
9.4486


428.0661,  
447.7054, 197.0297


 46.7464, 48.5743,  
4.9341


 109.3923,  
114.0198, 25.3445


 33.0424, 34.2819,  
2.1506


 138.6700,  
144.6391, 37.5630

 22.3183, 23.1102,  
0.6457


 172.7545,  
180.3011, 53.1865

 14.2089, 14.6749,  
0.0000

 212.0111,  
221.3901, 72.6337

 8.3488, 8.5916,  
0.0000

 256.8052,  
268.2907, 96.3231

 4.3726, 4.4757,  
0.0000

 307.5022,

 1.9150, 1.9431,

321.3872, 124.6732

0.0000

364.4674,  
381.0640, 158.1026

■ 0.5855, 0.5741,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 63.7959, 66.3718,  
9.4486

■ 63.7959, 66.3718,  
9.4486

■ 63.7961, 66.3728,  
9.4488

■ 65.1414, 68.7734,  
10.7909

■ 66.7555, 71.3345,  
13.3854

■ 68.7119, 74.0878,  
17.6124

■ 71.0551, 77.0515,  
23.7042

■ 73.8223, 80.2410,  
31.8555

■ 77.0460, 83.6696,  
42.2366

■ 80.7554, 87.3495,  
54.9998

■ 84.9772, 91.2917,  
70.2842

■ 89.7360, 95.5066,  
88.2180

# Harmonies

## Analogous

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



84.3632, 66.3718, 13.9696



63.7959, 66.3718, 9.4486



46.7209, 66.3718, 13.3019

# Triad

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



63.7959, 66.3718, 9.4486



35.7505, 66.3718, 137.1608



100.7052, 66.3718, 142.6218

# Complementary

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



63.7959, 66.3718, 9.4486



19.0674, 9.2545, 95.3883

# 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.



82.8817, 66.3718, 211.8403



63.7959, 66.3718, 9.4486



45.7231, 66.3718, 207.7094

# Square

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



63.7959, 66.3718, 9.4486



32.6661, 66.3718, 70.2565



62.3782, 66.3718, 240.2411



108.1894, 66.3718, 74.3167



# Rectangle

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



63.7959, 66.3718, 9.4486



38.9486, 66.3718, 22.3527



62.3782, 66.3718, 240.2411



95.5659, 66.3718, 167.6212

# Sweetspot

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



63.7974, 66.3751, 9.4499



80.7522, 87.3464, 54.9866



41.8379, 21.4996, 5.0790



16.9365, 18.3569, 10.5537



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.



63.7974, 66.3751, 9.4499



63.7966, 66.3733, 9.4489



54.2365, 81.0445, 12.7853



19.2598, 20.4879, 19.0838



33.4377, 34.8865, 4.9714



3.3262, 3.5377, 0.5075



# Inverse Universe

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



19.0674, 9.2545, 95.3883



19.0664, 9.2528, 95.3888



21.0719, 8.7782, 95.1907



17.2738, 17.9191, 22.7983



10.0399, 4.9893, 49.8685



1.0468, 0.6242, 4.8786



# Previews

## White Background



This preview shows how the XYZ color 63.7959, 66.3718, 9.4486 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 63.7959, 66.3718, 9.4486 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 63.7959, 66.3718, 9.4486**

## **Background**



This preview shows how black text looks on a background with the XYZ color 63.7959, 66.3718, 9.4486.



This preview shows how white text looks on a background with the XYZ color 63.7959, 66.3718,



# 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

63.7959, 66.3718, 9.4486

### Protanopia

60.0365, 66.6403, 9.9858

### Deuteranopia

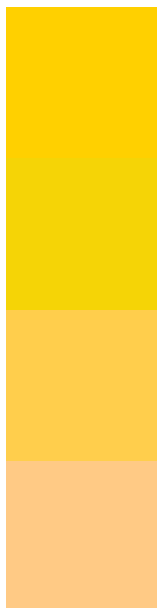
66.4615, 66.2787, 27.0595



## Tritanopia

72.9427, 66.2516, 69.2649

# Trichromacy



## Original Color

63.7959, 66.3718, 9.4486

## Protanomaly

61.2325, 66.5126, 9.7832

## Deuteranomaly

64.6158, 65.9244, 16.1565

## Tritanomaly

66.5942, 65.1945, 31.2642

# Monochromacy



## Original Color

63.7959, 66.3718, 9.4486

## Achromatopsia

53.6758, 56.4712, 61.4971

## Achromatomaly

54.0998, 58.8075, 28.2383

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 63.7959, 66.3718, 9.4486 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, 208, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 208, 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, 208, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 208, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 63.7959, 66.3718, 9.4486 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, 208, 0) }
```



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

```
.border{ border-color:rgb(255, 208, 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, 208, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 208, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 208, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 208,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 63.7959, 66.3718, 9.4486 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 208, 0) }
```

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

```
.background{ background-color: rgb(255,  
208, 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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