

# Converting Colors

XYZ(63.9200, 66.6200, 9.4900)

Have a look what the booklet for  
XYZ(63.9200, 66.6200, 9.4900)  
contains.

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# **Color**

**XYZ(64.0405, 66.8609,  
9.5302)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFD100
RGB	255, 209, 0
RGB Percent	100%, 82%, 0%
CMY	0.0000, 0.1804, 0.9999
CMYK	0.00, 0.18, 1.00, 0.00
HSL	49°, 100%, 50%
HSV	49°, 100%, 100%
XYZ	64.0405, 66.8609, 9.5302
YIQ	198.9280, 94.5050, -55.2470

# Conversions

## Conversions Part 2

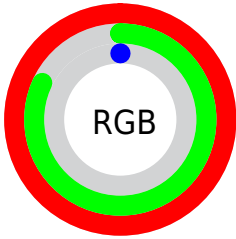
Format	Color
R <sub>Y</sub> B	56, 255, 0
Decimal	16765184
CIE Lab	85.43, 1.12, 86.09
CIE LCh	85, 86.093, 89.252
Yxy	66.8609, 0.4560, 0.4761
Android (android.graphics.Color)	4294955264 (0xFFFFD100)
YUV	198.9280, -98.0715, 49.1751
Hunter-Lab	81.7685, -3.2950, 50.3277

# Details

The XYZ color **64.0405, 66.8609, 9.5302** 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 **19.0280, 9.1757, 95.3753**, and the grayscale version is **54.7863, 57.6395, 62.7694**.

A 20% lighter version of the original color is **78.7615, 93.4846, 23.1257**, and **33.7137, 34.7801, 4.9363** is the 20% darker color. If you saturate the color by 10%, you get **64.0406, 66.8616, 9.5303**, and if you desaturate by 10%, it is **65.3680, 69.2265, 10.8666**.

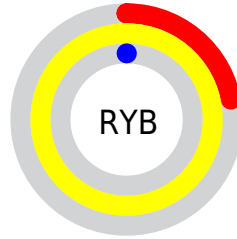
# Distribution



Red (100%)

Green (82%)

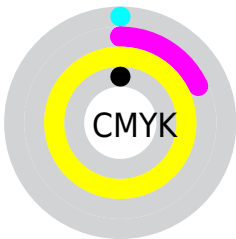
Blue (0%)



Red (22%)

Yellow (100%)

Blue (0%)

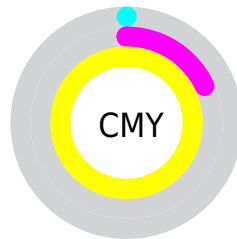


Cyan (0%)

Magenta (18%)

Yellow (100%)

Black (0%)



Cyan (0%)

Magenta (18%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 64.0405, 66.8609, 9.5302 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 64.0405, 66.8609, 9.5302 by changing the saturation by 10% instead.




 64.0405, 66.8609,  
9.5302

 64.0405, 66.8609,  
9.5302


428.9358,  
449.4495, 197.6468


 46.9453, 48.9716,  
4.9871


 109.7427,  
114.7211, 25.5019


 33.2002, 34.5969,  
2.1811


 139.0803,  
145.4607, 37.7675

 22.4398, 23.3526,  
0.6634


 173.2295,  
181.2526, 53.4444

 14.2988, 14.8541,  
0.0000

 212.5556,  
222.4811, 72.9511

 8.4119, 8.7170,  
0.0000

 257.4239,  
269.5307, 96.7062

 4.4136, 4.5571,  
0.0000

 308.1998,

 1.9387, 1.9898,

322.7857, 125.1281

0.0000

365.2486,  
382.6305, 158.6355

■ 0.5992, 0.6015,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 64.0405, 66.8609,  
9.5302

■ 64.0405, 66.8609,  
9.5302

■ 64.0406, 66.8616,  
9.5303

■ 65.3680, 69.2265,  
10.8666

■ 66.9628, 71.7490,  
13.4548

■ 68.8985, 74.4608,  
17.6751

■ 71.2196, 77.3801,  
23.7598

■ 73.9631, 80.5223,  
31.9036

■ 77.1618, 83.9007,  
42.2766

■ 80.8447, 87.5275,  
55.0313

■ 85.0385, 91.4137,  
70.3066

■ 89.7678, 95.5694,  
88.2309

# Harmonies

## Analogous

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



84.7397, 66.8609, 13.9790



64.0405, 66.8609, 9.5302



46.9132, 66.8609, 13.5171

# Triad

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



64.0405, 66.8609, 9.5302



36.1004, 66.8609, 138.9896



101.5812, 66.8609, 142.7637

# Complementary

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



64.0405, 66.8609, 9.5302



19.0280, 9.1757, 95.3753

# 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.



83.7157, 66.8609, 212.6625



64.0405, 66.8609, 9.5302



46.2234, 66.8609, 209.8079

# Square

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



64.0405, 66.8609, 9.5302



32.9173, 66.8609, 71.4059



63.0606, 66.8609, 241.9080



108.9635, 66.8609, 74.2124



# Rectangle

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



64.0405, 66.8609, 9.5302



39.1403, 66.8609, 22.7567



63.0606, 66.8609, 241.9080



96.4439, 66.8609, 167.9443

# Sweetspot

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



64.0420, 66.8642, 9.5315



80.8409, 87.5240, 55.0162



41.7485, 21.4639, 4.6079



16.9580, 18.3998, 10.5608



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.



64.0420, 66.8642, 9.5315



64.0410, 66.8621, 9.5303



53.2731, 80.5479, 12.7403



19.2662, 20.5005, 19.0859



33.5638, 35.1388, 5.0135



3.3373, 3.5600, 0.5113



# Inverse Universe

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



19.0280, 9.1757, 95.3753



19.0269, 9.1738, 95.3756



21.4238, 8.9597, 95.2073



17.2679, 17.9075, 22.7963



10.0179, 4.9454, 49.8611



1.0438, 0.6183, 4.8776



# Previews

## White Background



This preview shows how the XYZ color 64.0405, 66.8609, 9.5302 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 64.0405, 66.8609, 9.5302 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 64.0405, 66.8609, 9.5302**

## **Background**



This preview shows how black text looks on a background with the XYZ color 64.0405, 66.8609, 9.5302.



This preview shows how white text looks on a background with the XYZ color 64.0405, 66.8609,



# 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

64.0405, 66.8609, 9.5302

### Protanopia

60.3770, 66.8158, 10.0017

### Deuteranopia

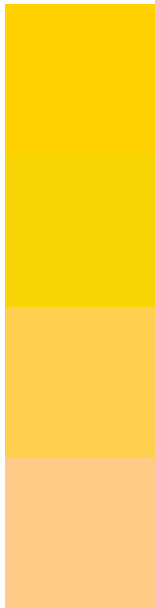
66.9494, 66.8578, 28.4450



## Tritanopia

73.2963, 66.7600, 69.9956

# Trichromacy



## Original Color

64.0405, 66.8609, 9.5302

## Protanomaly

61.5824, 66.6929, 9.7996

## Deuteranomaly

64.9641, 66.4502, 16.7993

## Tritanomaly

66.8990, 65.6931, 31.7083

# Monochromacy



## Original Color

64.0405, 66.8609, 9.5302

## Achromatopsia

54.2854, 57.1125, 62.1955

## Achromatomaly

54.4001, 59.3042, 28.6583

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 64.0405, 66.8609, 9.5302 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, 209, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 209, 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, 209, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 209, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 64.0405, 66.8609, 9.5302 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, 209, 0) }
```



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

```
.border{ border-color:rgb(255, 209, 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, 209, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 209, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 209, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 209,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 64.0405, 66.8609, 9.5302 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 209, 0) }
```

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

```
.background{ background-color: rgb(255,  
209, 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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