

# Converting Colors

XYZ(89.7948, 76.2813, 9.7051)

Have a look what the booklet for  
XYZ(89.7948, 76.2813, 9.7051)  
contains.

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# **Color**

**XYZ(61.4341, 61.6482,  
8.6614)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFC600
RGB	255, 198, 0
RGB Percent	100%, 78%, 0%
CMY	0.0000, 0.2235, 0.9999
CMYK	0.00, 0.22, 1.00, 0.00
HSL	47°, 100%, 50%
HSV	47°, 100%, 100%
XYZ	61.4341, 61.6482, 8.6614
YIQ	192.4710, 97.5300, -49.4940

# Conversions

## Conversions Part 2

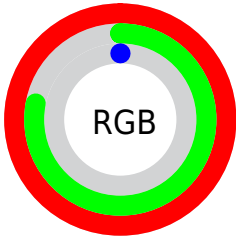
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	73, 255, 0
Decimal	16762368
CIE Lab	82.73, 6.77, 84.20
CIE LCh	83, 84.474, 85.406
Yxy	61.6482, 0.4663, 0.4679
Android (android.graphics.Color)	4294952448 (0xFFFFC600)
YUV	192.4710, -94.8882, 54.8379
Hunter-Lab	78.5164, 2.2613, 48.4210

# Details

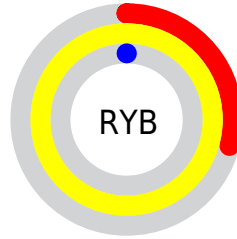
The XYZ color **61.4341, 61.6482, 8.6614** is a light color, and the websafe version is hex **FFCC00**. The color can be described as light saturated yellow. A complement of this color would be **19.5141, 10.1480, 95.5372**, and the grayscale version is **50.8800, 53.5298, 58.2939**.

A 20% lighter version of the original color is **78.3615, 92.8155, 22.5892**, and **32.1177, 31.5883, 4.4044** is the 20% darker color. If you saturate the color by 10%, you get **61.4341, 61.6487, 8.6615**, and if you desaturate by 10%, it is **62.9441, 64.3788, 10.0585**.

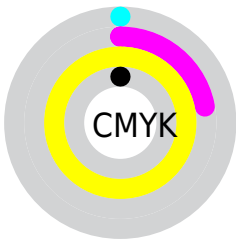
# Distribution



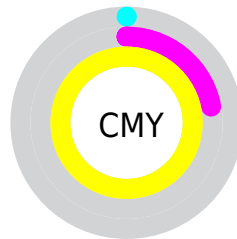
- Red (100%)
- Green (78%)
- Blue (0%)



- Red (29%)
- Yellow (100%)
- Blue (0%)



- Cyan (0%)
- Magenta (22%)
- Yellow (100%)
- Black (0%)



- Cyan (0%)
- Magenta (22%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 61.4341, 61.6482, 8.6614 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 61.4341, 61.6482, 8.6614 by changing the saturation by 10% instead.





 61.4341, 61.6482,  
8.6614

 61.4341, 61.6482,  
8.6614


419.6144,  
430.6467, 190.9556

 44.8295, 44.7485,  
4.4272


 106.0018,  
107.2169, 23.8124

 31.5238, 31.2594,  
1.8625


 134.6955,  
136.6547, 35.5664

 21.1518, 20.7964,  
0.4687


 168.1497,  
171.0407, 50.6639

 13.3481, 12.9753,  
0.0000

 206.7297,  
210.7592, 69.5237

 7.7474, 7.4115,  
0.0000

 250.8008,  
256.1947, 92.5642

 3.9842, 3.7208,  
0.0000

 300.7284,

 1.6932, 1.5186,

307.7315, 120.2040

0.0000

356.8778,  
365.7540, 152.8616

■ 0.4520, 0.3018,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 61.4341, 61.6482,  
8.6614

■ 61.4341, 61.6482,  
8.6614

■ 61.4341, 61.6487,  
8.6615

■ 62.9441, 64.3788,  
10.0585

■ 64.7381, 67.2997,  
12.7129

■ 66.8900, 70.4440,  
17.0050

■ 69.4444, 73.8301,  
23.1672

■ 72.4388, 77.4740,  
31.3943

■ 75.9059, 81.3895,  
41.8565

■ 79.8752, 85.5892,  
54.7063

■ 84.3736, 90.0845,  
70.0828

■ 89.4257, 94.8862,  
88.1144

# Harmonies

## Analogous

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



80.7230, 61.6482, 13.8893



61.4341, 61.6482, 8.6614



44.8626, 61.6482, 11.2732

# Triad

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



61.4341, 61.6482, 8.6614



32.3889, 61.6482, 119.7773



92.2698, 61.6482, 141.3513

# Complementary

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



61.4341, 61.6482, 8.6614



19.5141, 10.1480, 95.5372

# 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.



74.8770, 61.6482, 203.9079



61.4341, 61.6482, 8.6614



40.9322, 61.6482, 187.5766

# Square

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



61.4341, 61.6482, 8.6614



30.2407, 61.6482, 59.4346



55.8443, 61.6482, 224.1416



100.7137, 61.6482, 75.4505



# Rectangle

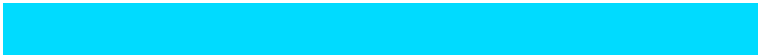
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



61.4341, 61.6482, 8.6614



37.0932, 61.6482, 18.5689



55.8443, 61.6482, 224.1416



87.1215, 61.6482, 164.5717

# Sweetspot

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



61.4355, 61.6513, 8.6626



79.8718, 85.5857, 54.6932



42.0429, 21.5815, 6.1583



16.7242, 17.9323, 10.4829



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.



61.4355, 61.6513, 8.6626



61.4346, 61.6492, 8.6615



56.2548, 82.0850, 12.8798



19.1966, 20.3614, 19.0627



32.2176, 32.4464, 4.5647



3.2175, 3.3204, 0.4713



# Inverse Universe

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



19.5141, 10.1480, 95.5372



19.5130, 10.1460, 95.5377



20.4353, 8.4501, 95.1609



17.3323, 18.0361, 22.8178



10.2863, 5.4821, 49.9506



1.0787, 0.6882, 4.8892



# Previews

## White Background



This preview shows how the XYZ color 61.4341, 61.6482, 8.6614 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

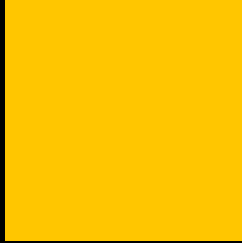
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 61.4341, 61.6482, 8.6614 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 61.4341, 61.6482, 8.6614

## Background



This preview shows how black text looks on a background with the XYZ color 61.4341, 61.6482, 8.6614.



This preview shows how white text looks on a background with the XYZ color 61.4341, 61.6482,



# 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

61.4341, 61.6482, 8.6614

### Protanopia

55.9897, 61.9783, 9.3928

### Deuteranopia

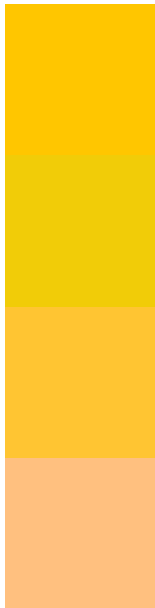
62.6175, 61.7570, 16.0171



## Tritanopia

69.6485, 61.3966, 62.8234

# Trichromacy



## Original Color

61.4341, 61.6482, 8.6614

## Protanomaly

57.9123, 61.9040, 9.1261

## Deuteranomaly

61.7820, 61.4228, 11.6171

## Tritanomaly

63.9204, 60.4916, 28.3857

# Monochromacy



## Original Color

61.4341, 61.6482, 8.6614

## Achromatopsia

50.1023, 52.7115, 57.4028

## Achromatomaly

50.8290, 54.4358, 26.2405

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 61.4341, 61.6482, 8.6614 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, 198, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 198, 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, 198, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 198, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 61.4341, 61.6482, 8.6614 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, 198, 0) }
```



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

```
.border{ border-color:rgb(255, 198, 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, 198, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 198, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 198, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 198,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 61.4341, 61.6482, 8.6614 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 198, 0) }
```

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

```
.background{ background-color: rgb(255,  
198, 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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