

# Converting Colors

XYZ(65.8425, 69.9627, 11.6792)

Have a look what the booklet for  
XYZ(65.8425, 69.9627, 11.6792)  
contains.

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# Color

**XYZ(65.8589, 69.9883,  
11.7070)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFD724
RGB	255, 215, 36
RGB Percent	100%, 84%, 14%
CMY	0.0000, 0.1568, 0.8588
CMYK	0.00, 0.16, 0.86, 0.00
HSL	49°, 100%, 57%
HSV	49°, 86%, 100%
XYZ	65.8589, 69.9883, 11.7070
YIQ	206.5540, 81.2990, -47.1890

# Conversions

## Conversions Part 2

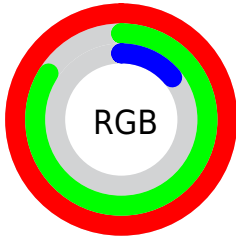
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	85, 255, 36
Decimal	16766756
CIE Lab	86.99, -1.48, 82.47
CIE LCh	87, 82.482, 91.028
Yxy	69.9883, 0.4463, 0.4743
Android (android.graphics.Color)	4294956836 (0xFFFFD724)
YUV	206.5540, -84.0831, 42.4871
Hunter-Lab	83.6590, -5.8827, 50.2644

# Details

The XYZ color **65.8589, 69.9883, 11.7070** 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 **21.3623, 12.7643, 95.9449**, and the grayscale version is **59.5104, 62.6096, 68.1819**.

A 20% lighter version of the original color is **79.3983, 93.7393, 26.4791**, and **34.7372, 36.8272, 5.2775** is the 20% darker color. If you saturate the color by 10%, you get **64.4304, 67.5491, 9.9444**, and if you desaturate by 10%, it is **67.6008, 72.6124, 14.9399**.

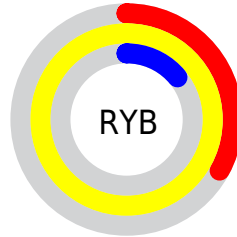
# Distribution



Red (100%)

Green (84%)

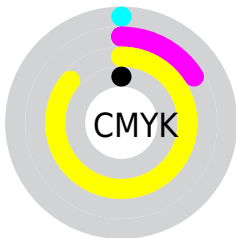
Blue (14%)



Red (33%)

Yellow (100%)

Blue (14%)

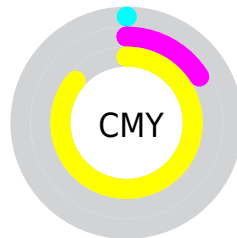


Cyan (0%)

Magenta (16%)

Yellow (86%)

Black (0%)



Cyan (0%)

Magenta (16%)

Yellow (86%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 65.8589, 69.9883, 11.7070 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 65.8589, 69.9883, 11.7070 by changing the saturation by 10% instead.





 65.8589, 69.9883,  
11.7070


 65.8589, 69.9883,  
11.7070


435.3687,  
460.5089, 213.3644


 48.4252, 51.5170,  
6.4244


 112.3426,  
119.1921, 29.6167


 34.3763, 36.6202,  
3.0319


 142.1234,  
150.6933, 43.0809


 23.3471, 24.9136,  
1.1109


 176.7504,  
187.3067, 60.1093

 14.9721, 16.0127,  
0.0000

 216.5892,  
229.4166, 81.1205

 8.8860, 9.5331,  
0.0000

 262.0051,  
277.4073, 106.5331

 4.7234, 5.0905,  
0.0000

 313.3634,

 2.1190, 2.3005,

331.6634, 136.7656

0.0000

371.0295,  
392.5691, 172.2365

■ 0.6995, 0.7740,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 65.8589, 69.9883,  
11.7070

■ 65.8589, 69.9883,  
11.7070

■ 64.4304, 67.5491,  
9.9444

■ 67.6008, 72.6124,  
14.9399

■ 63.9007, 66.5819,  
9.4837

■ 69.7023, 75.4319,  
19.9050

■ 72.2058, 78.4672,  
26.8184

■ 75.1466, 81.7327,  
35.8637

■ 78.5557, 85.2412,  
47.2030

■ 82.4610, 89.0044,  
60.9828

■ 86.8885, 93.0330,  
77.3375

■ 91.8618, 97.3369,  
96.3914

95.0497, 99.9998,  
108.9000

# Harmonies

## Analogous

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



86.1474, 69.9883, 15.9416



65.8589, 69.9883, 11.7070



49.1812, 69.9883, 16.6223

# Triad

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



65.8589, 69.9883, 11.7070



39.5383, 69.9883, 145.0941



104.5193, 69.9883, 140.0847

# Complementary

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



65.8589, 69.9883, 11.7070



21.3623, 12.7643, 95.9449

# 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.



87.5233, 69.9883, 208.2297



65.8589, 69.9883, 11.7070



50.1291, 69.9883, 211.9748

# Square

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



65.8589, 69.9883, 11.7070



35.9091, 69.9883, 78.1261



67.1891, 69.9883, 239.3245



110.9086, 69.9883, 74.3164



# Rectangle

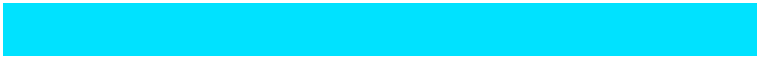
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



65.8589, 69.9883, 11.7070



41.6581, 69.9883, 27.0284



67.1891, 69.9883, 239.3245



99.7137, 69.9883, 164.4064

# Sweetspot

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



65.8605, 69.9917, 11.7084



82.4111, 88.9578, 60.8006



43.1809, 23.0462, 9.0388



17.3379, 18.7555, 11.9335



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.



65.8605, 69.9917, 11.7084



63.9012, 66.5825, 9.4837



56.2437, 82.0425, 14.5413



19.2626, 20.4933, 19.0847



33.4916, 34.9945, 4.9894



3.3309, 3.5473, 0.5091



# Inverse Universe

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



21.3623, 12.7643, 95.9449



19.0494, 9.2187, 95.3831



24.5487, 11.5072, 95.5343



17.2713, 17.9142, 22.7974



10.0304, 4.9703, 49.8653



1.0455, 0.6217, 4.8782



# Previews

## White Background



This preview shows how the XYZ color 65.8589, 69.9883, 11.7070 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 65.8589, 69.9883, 11.7070 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 65.8589, 69.9883, 11.7070**

## **Background**



This preview shows how black text looks on a background with the XYZ color 65.8589, 69.9883, 11.7070.



This preview shows how white text looks on a background with the XYZ color 65.8589, 69.9883,



# 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

65.8589, 69.9883, 11.7070

### Protanopia

63.6715, 70.3894, 11.9809

### Deuteranopia

69.4922, 69.8317, 35.8028



## Tritanopia

75.4660, 69.8805, 74.4765

# Trichromacy



## Original Color

65.8589, 69.9883, 11.7070

## Protanomaly

64.4723, 70.4161, 11.9439

## Deuteranomaly

67.2822, 69.3464, 22.9358

## Tritanomaly

69.6264, 69.0953, 38.9452

# Monochromacy



## Original Color

65.8589, 69.9883, 11.7070

## Achromatopsia

59.3074, 62.3960, 67.9493

## Achromatomaly

58.8979, 63.9848, 36.0341

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 65.8589, 69.9883, 11.7070 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, 215, 36)` looks like.

```
.text, #text, p{  
    color:rgb(255, 215, 36)  
}
```

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, 215, 36) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 215, 36) }
```

## Border

The CSS property to change the border of an element to XYZ 65.8589, 69.9883, 11.7070 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, 215, 36) }
```



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

```
.border{ border-color:rgb(255, 215, 36) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 215, 36)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 215, 36); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 215, 36);  
box-shadow:4px 4px 4px 4px rgb(255, 215,  
36) }
```

# Background

The CSS property to change the background color of an element to XYZ 65.8589, 69.9883, 11.7070 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 215, 36) }
```

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

```
.background{ background-color: rgb(255,  
215, 36) }
```

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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