

# Converting Colors

XYZ(68.3698, 82.3842, 12.2983)

Have a look what the booklet for  
XYZ(68.3698, 82.3842, 12.2983)  
contains.

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# **Color**

**XYZ(68.3701, 82.3815,  
12.2977)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F2F200
RGB	242, 242, 0
RGB Percent	95%, 95%, 0%
CMY	0.0510, 0.0510, 0.9999
CMYK	0.00, 0.00, 1.00, 0.05
HSL	60°, 100%, 47%
HSV	60°, 100%, 95%
XYZ	68.3701, 82.3815, 12.2977
YIQ	214.4120, 77.6820, -75.2620

# Conversions

## Conversions Part 2

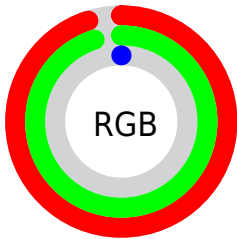
Format	Color
<a href="#">RYB</a>	<a href="#">0, 242, 0</a>
Decimal	<a href="#">15921664</a>
CIELab	<a href="#">92.74, -20.72, 90.81</a>
CIELCh	<a href="#">93, 93.145, 102.852</a>
Yxy	<a href="#">82.3815, 0.4193, 0.5053</a>
Android (android.graphics.Color)	<a href="#">4294111744 (0xFFFF2F200)</a>
YUV	<a href="#">214.4120, -105.7051, 24.1947</a>
Hunter-Lab	<a href="#">90.7643, -24.3785, 55.5017</a>

# Details

The XYZ color **68.3701, 82.3815, 12.2977** is a light color, and the websafe version is hex **FFFF33**. The color can be described as light saturated yellow. A complement of this color would be **16.0289, 6.4122, 84.4024**, and the grayscale version is **64.8531, 68.2305, 74.3030**.

A 20% lighter version of the original color is **78.9758, 93.5703, 24.2543**, and **36.6150, 44.9416, 6.7448** is the 20% darker color. If you saturate the color by 10%, you get **68.3718, 82.3853, 12.2984**, and if you desaturate by 10%, it is **68.5394, 82.4523, 13.1795**.

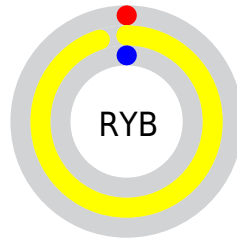
# Distribution



Red (95%)

Green (95%)

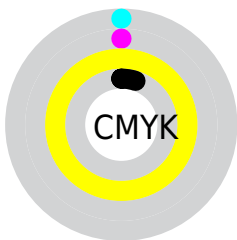
Blue (0%)



Red (0%)

Yellow (95%)

Blue (0%)

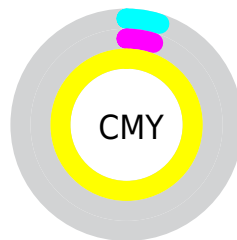


Cyan (0%)

Magenta (0%)

Yellow (100%)

Black (5%)



Cyan (5%)

Magenta (5%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 68.3701, 82.3815, 12.2977 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 68.3701, 82.3815, 12.2977 by changing the saturation by 10% instead.



68.3701, 82.3815,  
12.2977

68.3701, 82.3815,  
12.2977

444.1624,  
502.9229, 217.4137

50.4737, 61.6800,  
6.8218

115.9204,  
136.7089, 30.7086

36.0092, 44.7742,  
3.2741

146.3051,  
171.1036, 44.4807

24.6115, 31.2796,  
1.2363

181.5831,  
210.8315, 61.8552

15.9150, 20.8119,  
0.0087

222.1200,  
256.2770, 83.2508

9.5545, 12.9866,  
0.0000

268.2810,  
307.8245, 109.0858

5.1646, 7.4193,  
0.0000

320.4315,

2.3799, 3.7257,

365.8584, 139.7790

0.0000

378.9368,  
430.7630, 175.7488

■ 0.8351, 1.5213,  
0.0000

■ 0.0000, 0.3037,  
0.0000

■ 68.3701, 82.3815,  
12.2977

■ 68.3701, 82.3815,  
12.2977

■ 68.3718, 82.3853,  
12.2984

■ 68.5394, 82.4523,  
13.1795

■ 68.9148, 82.6026,  
15.1554

■ 69.5631, 82.8619,  
18.5680

■ 70.5229, 83.2458,  
23.6207

71.8266, 83.7673,  
30.4845

73.5026, 84.4378,  
39.3088

75.5763, 85.2673,  
50.2277

78.0710, 86.2652,  
63.3633

81.0081, 87.4401,  
78.8285

# Harmonies

## Analogous

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



92.8868, 82.3815, 13.0004



68.3701, 82.3815, 12.2977



50.6508, 82.3815, 23.0524

# Triad

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



68.3701, 82.3815, 12.2977



48.8224, 82.3815, 214.8042



131.9130, 82.3815, 135.1730

# Complementary

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



68.3701, 82.3815, 12.2977



16.0289, 6.4122, 84.4024

# 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.



114.5331, 82.3815, 227.7406



68.3701, 82.3815, 12.2977



65.3283, 82.3815, 287.6874

# Square

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



68.3701, 82.3815, 12.2977



41.0379, 82.3815, 122.8434



89.1501, 82.3815, 293.3658



133.1995, 82.3815, 63.1277



# Rectangle

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



68.3701, 82.3815, 12.2977



43.6754, 82.3815, 41.4811



89.1501, 82.3815, 293.3658



127.6172, 82.3815, 165.5748

# Sweetspot

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



68.3720, 82.3854, 12.2994



85.0853, 96.0140, 56.4313



36.6208, 18.8792, 1.7149



17.9888, 20.4618, 10.9045



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.



68.3720, 82.3854, 12.2994



76.9972, 92.7785, 13.8499



39.6423, 67.5747, 10.9549



17.1229, 18.4591, 16.8102



36.7277, 44.2554, 6.6064



3.0554, 3.6816, 0.5496



# Inverse Universe

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



16.0289, 6.4122, 84.4024



18.0501, 7.2200, 95.0500



23.9164, 10.4784, 84.7716



14.8974, 15.2288, 19.8759



8.6099, 3.4440, 45.3388

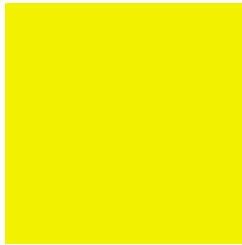


0.7163, 0.2865, 3.7718



# Previews

## White Background



This preview shows how the XYZ color 68.3701, 82.3815, 12.2977 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

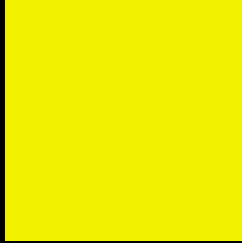
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 68.3701, 82.3815, 12.2977 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 68.3701, 82.3815, 12.2977**

## **Background**



This preview shows how black text looks on a background with the XYZ color 68.3701, 82.3815, 12.2977.



This preview shows how white text looks on a background with the XYZ color 68.3701, 82.3815,



# 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

68.3701, 82.3815, 12.2977

### Protanopia

75.2503, 81.9406, 35.8948

### Deuteranopia

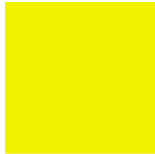
79.7299, 81.9308, 65.0381



## Tritanopia

84.3135, 82.0036, 94.6036

# Trichromacy



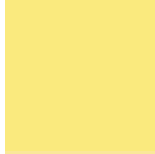
## Original Color

68.3701, 82.3815, 12.2977



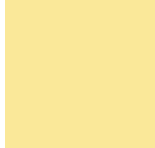
## Protanomaly

71.4700, 81.5969, 21.2154



## Deuteranomaly

72.6131, 80.6760, 31.4836



## Tritanomaly

74.0307, 80.3371, 41.7418

# Monochromacy



## Original Color

68.3701, 82.3815, 12.2977



## Achromatopsia

63.9157, 67.2443, 73.2291



## Achromatomaly

61.8401, 70.9362, 33.7253

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 68.3701, 82.3815, 12.2977 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(242, 242, 0)` looks like.

```
.text, #text, p{  
    color:rgb(242, 242, 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(242, 242, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 242, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 68.3701, 82.3815, 12.2977 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(242, 242, 0) }
```



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

```
.border{ border-color:rgb(242, 242, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(242, 242, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 242, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 242, 0);  
box-shadow:4px 4px 4px 4px rgb(242, 242,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 68.3701, 82.3815, 12.2977 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 242, 0) }
```

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

```
.background{ background-color: rgb(242,  
242, 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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