

Converting Colors

XYZ(38.0712, 72.7027, 12.4248)

Have a look what the booklet for
XYZ(38.0712, 72.7027, 12.4248)
contains.

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Color

**XYZ(38.0860, 72.7100,
12.4426)**

Conversions

Conversions Part 1

Format	Color
Hex	42FF0E
RGB	66, 255, 14
RGB Percent	26%, 100%, 5%
CMY	0.7412, 0.0000, 0.9450
CMYK	0.74, 0.00, 0.94, 0.00
HSL	107°, 100%, 53%
HSV	107°, 94%, 100%
XYZ	38.0860, 72.7100, 12.4426
YIQ	171.0150, -35.2830, -115.0190

Conversions

Conversions Part 2

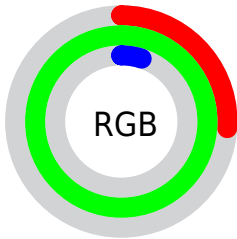
Format	Color
RYB	14, 255, 203
Decimal	4390670
CIELab	88.31, -80.99, 82.79
CIELCh	88, 115.816, 134.370
Yxy	72.7100, 0.3090, 0.5900
Android (android.graphics.Color)	4282580750 (0xFF42FF0E)
YUV	171.0150, -77.4084, -92.0982
Hunter-Lab	85.2702, -69.4956, 51.0375

Details

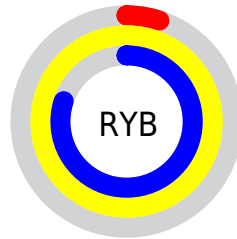
The XYZ color **38.0860, 72.7100, 12.4426** is a dark color, and the websafe version is hex **33FF00**. The color can be described as dark saturated green. A complement of this color would be **42.8454, 20.2363, 96.2555**, and the grayscale version is **39.1076, 41.1443, 44.8061**.

A 20% lighter version of the original color is **49.0266, 78.1153, 23.5601**, and **19.9663, 39.9325, 6.6554** is the 20% darker color. If you saturate the color by 10%, you get **37.3351, 72.3320, 11.9937**, and if you desaturate by 10%, it is **39.9728, 73.6484, 14.0749**.

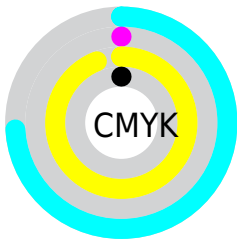
Distribution



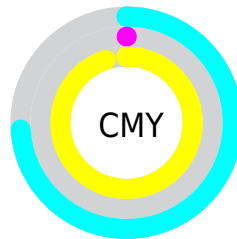
- Red (26%)
- Green (100%)
- Blue (5%)



- Red (5%)
- Yellow (100%)
- Blue (80%)



- Cyan (74%)
- Magenta (0%)
- Yellow (94%)
- Black (0%)





- Cyan (74%)
- Magenta (0%)
- Yellow (95%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 38.0860, 72.7100, 12.4426 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 38.0860, 72.7100, 12.4426 by changing the saturation by 10% instead.


 38.0860, 72.7100,
12.4426


 38.0860, 72.7100,
12.4426


329.2632,
470.0091, 218.3947

 26.2270, 53.7389,
6.9197


 71.5430, 123.0654,
30.9751


 17.1271, 38.3929,
3.3342


 93.8716, 155.2185,
44.8217


 10.4210, 26.2878,
1.2677


 120.4209,
192.5344, 62.2799

 5.7434, 17.0391,
0.0351

 151.5560,
235.3974, 83.7683

 2.7288, 10.2623,
0.0000

 187.6425,
284.1920, 109.7055

 1.0120, 5.5732,
0.0000

 229.0456,

 0.0000, 2.5874,

339.3025, 140.5099

0.0000

276.1307,
401.1135, 176.6001

■ 0.0000, 0.9203,
0.0000

■ 0.0000, 0.0000,
0.0000

■ 38.0860, 72.7100,
12.4426

■ 38.0860, 72.7100,
12.4426


■ 37.3351, 72.3320,
11.9937


■ 39.9728, 73.6484,
14.0749


■ 42.6590, 74.9662,
17.2276


■ 46.2326, 76.7030,
22.1606


■ 50.7687, 78.8929,
29.0851

 56.3339, 81.5663,
38.1824

 62.9886, 84.7508,
49.6138

 70.7883, 88.4718,
63.5251

 79.7848, 92.7532,
80.0502

 90.0263, 97.6172,
99.3136

Harmonies

Analogous

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



56.6836, 72.7100, 4.2141



38.0860, 72.7100, 12.4426



29.3813, 72.7100, 44.6969

Triad

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



38.0860, 72.7100, 12.4426



55.6955, 72.7100, 336.6924



134.8265, 72.7100, 46.9530

Complementary

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



38.0860, 72.7100, 12.4426



42.8454, 20.2363, 96.2555

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.



134.3525, 72.7100, 127.9402



38.0860, 72.7100, 12.4426



83.2284, 72.7100, 338.9825

Square

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



38.0860, 72.7100, 12.4426



37.5305, 72.7100, 241.5201



113.5857, 72.7100, 246.5571



114.7461, 72.7100, 13.1481

Rectangle

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



38.0860, 72.7100, 12.4426



28.3644, 72.7100, 91.4044



113.5857, 72.7100, 246.5571



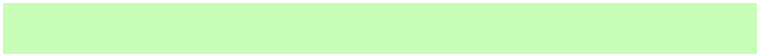
137.2068, 72.7100, 68.0770

Sweetspot

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



38.0862, 72.7100, 12.4437



67.9224, 87.1057, 58.3611



62.6260, 63.9048, 9.4507



13.8251, 18.3039, 11.2227



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.



38.0862, 72.7100, 12.4437



37.3351, 72.3320, 11.9937



37.4763, 72.2275, 20.0101



18.1377, 20.3569, 19.1176



19.6096, 37.8472, 6.2717



1.9965, 3.7300, 0.6147

Inverse Universe

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



42.8454, 20.2363, 96.2555



41.8715, 19.5005, 96.1648



50.3378, 25.1511, 49.0616



18.3868, 18.0911, 22.7728



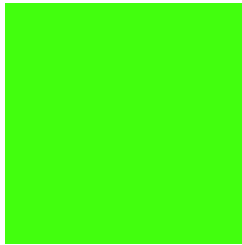
22.0103, 10.2572, 50.2544



2.2338, 1.0455, 4.8973

Previews

White Background



This preview shows how the XYZ color 38.0860, 72.7100, 12.4426 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 38.0860, 72.7100, 12.4426 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

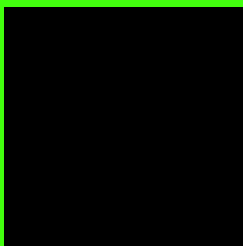
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

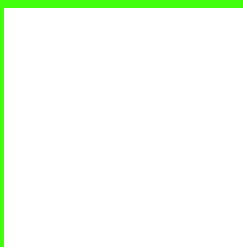
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 38.0860, 72.7100, 12.4426

Background



This preview shows how black text looks on a background with the XYZ color 38.0860, 72.7100, 12.4426.



This preview shows how white text looks on a background with the XYZ color 38.0860, 72.7100,

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

38.0860, 72.7100, 12.4426

Protanopia

63.9510, 70.9606, 10.3262

Deuteranopia

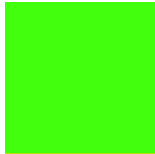
70.4591, 71.0184, 38.4281



Tritanopia

56.9475, 71.8001, 105.4651

Trichromacy



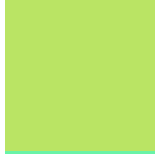
Original Color

38.0860, 72.7100, 12.4426



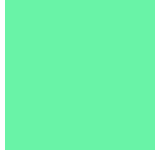
Protanomaly

48.2224, 68.1125, 10.7490



Deuteranomaly

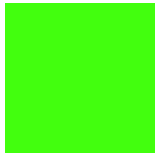
50.2934, 66.8460, 22.3084



Tritanomaly

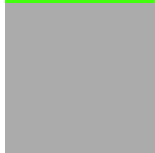
44.8513, 69.8945, 47.6863

Monochromacy



Original Color

38.0860, 72.7100, 12.4426



Achromatopsia

38.7082, 40.7240, 44.3485



Achromatomaly

33.8307, 48.4425, 23.4869

CSS Examples

Text

The CSS property to change the color of the text to XYZ 38.0860, 72.7100, 12.4426 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(66, 255, 14)` looks like.

```
.text, #text, p{  
    color:rgb(66, 255, 14)  
}
```

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(66, 255, 14) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(66, 255, 14) }
```

Border

The CSS property to change the border of an element to XYZ 38.0860, 72.7100, 12.4426 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(66, 255, 14) }
```


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

```
.border{ border-color:rgb(66, 255, 14) }
```

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

Here you see how a box with a 4 pixel `rgb(66, 255, 14)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(66, 255, 14); -webkit-box-  
shadow:4px 4px 4px 4px rgb(66, 255, 14);  
box-shadow:4px 4px 4px 4px rgb(66, 255,  
14) }
```

Background

The CSS property to change the background color of an element to XYZ 38.0860, 72.7100, 12.4426 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(66, 255, 14) }
```

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

```
.background{ background-color: rgb(66, 255,  
14) }
```

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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