

# Converting Colors

XYZ(35.8814, 71.5783, 12.1185)

Have a look what the booklet for  
XYZ(35.8814, 71.5783, 12.1185)  
contains.

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# Color

**XYZ(35.8860, 71.5805,  
12.1261)**

# Conversions

## Conversions Part 1

Format	Color
Hex	07FF07
RGB	7, 255, 7
RGB Percent	3%, 100%, 3%
CMY	0.9725, 0.0000, 0.9724
CMYK	0.97, 0.00, 0.97, 0.00
HSL	120°, 100%, 51%
HSV	120°, 97%, 100%
XYZ	35.8860, 71.5805, 12.1261
YIQ	152.5760, -68.2000, -129.7040

# Conversions

## Conversions Part 2

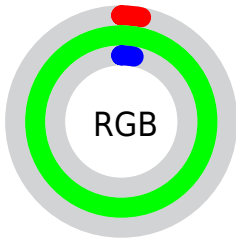
<b>Format</b>	<b>Color</b>
<b>RYB</b>	7, 255, 255
Decimal	524039
CIELab	87.77, -85.89, 82.68
CIELCh	88, 119.219, 136.089
Yxy	71.5805, 0.3001, 0.5985
Android (android.graphics.Color)	4278714119 (0xFF07FF07)
YUV	152.5760, -71.7690, -127.6702
Hunter-Lab	84.6053, -72.3470, 50.7259

# Details

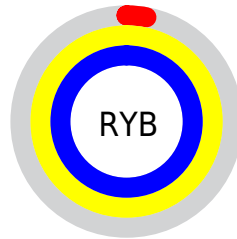
The XYZ color **35.8860, 71.5805, 12.1261** is a dark color, and the websafe version is hex **00FF00**. The color can be described as dark saturated green. A complement of this color would be **59.3598, 28.6296, 96.9729**, and the grayscale version is **30.4196, 32.0038, 34.8521**.

A 20% lighter version of the original color is **45.6655, 76.3931, 22.9282**, and **19.7399, 39.4799, 6.5800** is the 20% darker color. If you saturate the color by 10%, you get **35.7602, 71.5201, 11.9211**, and if you desaturate by 10%, it is **36.6395, 71.9424, 13.3603**.

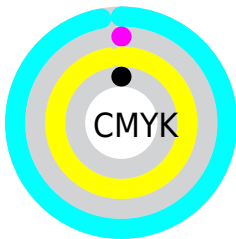
# Distribution



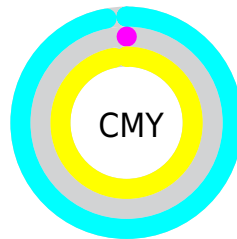
- Red (3%)
- Green (100%)
- Blue (3%)



- Red (3%)
- Yellow (100%)
- Blue (100%)



- Cyan (97%)
- Magenta (0%)
- Yellow (97%)
- Black (0%)




- Cyan (97%)
- Magenta (0%)
- Yellow (97%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 35.8860, 71.5805, 12.1261 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 35.8860, 71.5805, 12.1261 by changing the saturation by 10% instead.





 35.8860, 71.5805,  
12.1261


 35.8860, 71.5805,  
12.1261


319.9019,  
466.0802, 216.2458


 24.5159, 52.8161,  
6.7060


 68.1811, 121.4599,  
30.3924


 15.8435, 37.6560,  
3.2033


 89.8368, 153.3437,  
44.0757


 9.5036, 25.7158,  
1.1994


 115.6517,  
190.3694, 61.3505

 5.1308, 16.6111,  
0.0000

 145.9911,  
232.9214, 82.6353

 2.3598, 9.9576,  
0.0000

 181.2205,  
281.3840, 108.3487

 0.8250, 5.3709,  
0.0000

 221.7052,

 0.0000, 2.4665,

336.1418, 138.9092

0.0000

267.8106,  
397.5790, 174.7354

■ 0.0000, 0.8598,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 35.8860, 71.5805,  
12.1261

■ 35.8860, 71.5805,  
12.1261


■ 35.7602, 71.5201,  
11.9211


■ 36.6395, 71.9424,  
13.3603


■ 38.2697, 72.7255,  
16.0278


■ 40.9537, 74.0147,  
20.4190


■ 44.8287, 75.8761,  
26.7580

 50.0114, 78.3656,  
35.2356

 56.6045, 81.5325,  
46.0197

 64.7004, 85.4214,  
59.2616

 74.3838, 90.0729,  
75.0997

 85.7332, 95.5246,  
93.6621

# Harmonies

## Analogous

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



54.0445, 71.5805, 3.6281



35.8860, 71.5805, 12.1261



27.7115, 71.5805, 46.1606

# Triad

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



35.8860, 71.5805, 12.1261



55.7757, 71.5805, 348.0960



134.8389, 71.5805, 42.2430

# Complementary

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



35.8860, 71.5805, 12.1261



59.3598, 28.6296, 96.9729

# 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.



135.6850, 71.5805, 121.7198



35.8860, 71.5805, 12.1261



84.2531, 71.5805, 343.9559

# Square

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



35.8860, 71.5805, 12.1261



36.8490, 71.5805, 252.6955



115.2366, 71.5805, 243.6334



113.1716, 71.5805, 10.9547



# Rectangle

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



35.8860, 71.5805, 12.1261



27.0094, 71.5805, 95.6615



115.2366, 71.5805, 243.6334



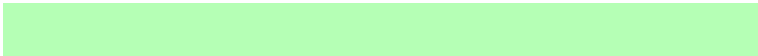
137.7372, 71.5805, 62.5528

# Sweetspot

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



35.8862, 71.5806, 12.1272



63.1746, 84.6885, 56.7660



77.0384, 92.7953, 14.0520



12.7671, 17.7643, 10.9157



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.



35.8862, 71.5806, 12.1272



35.7602, 71.5201, 11.9211



39.9445, 73.2039, 33.4977



17.7718, 20.1682, 19.1011



18.6855, 37.3708, 6.2293



1.8194, 3.6387, 0.6067



# Inverse Universe

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



59.3598, 28.6296, 96.9729



59.2837, 28.4775, 96.9466



45.4128, 23.0507, 23.5289



18.7926, 18.3004, 22.7911



30.9770, 14.8801, 50.6570

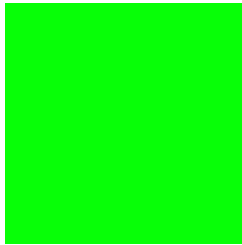


3.0162, 1.4488, 4.9325



# Previews

## White Background



This preview shows how the XYZ color 35.8860, 71.5805, 12.1261 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

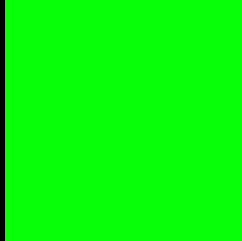
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 35.8860, 71.5805, 12.1261 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

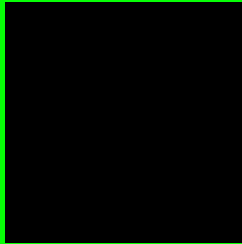
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

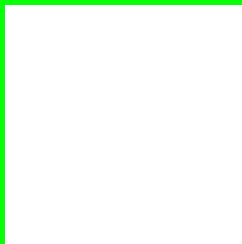
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 35.8860, 71.5805, 12.1261**

## **Background**



This preview shows how black text looks on a background with the XYZ color 35.8860, 71.5805, 12.1261.



This preview shows how white text looks on a background with the XYZ color 35.8860, 71.5805,



# 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

35.8860, 71.5805, 12.1261

### Protanopia

63.0774, 69.7356, 10.1358

### Deuteranopia

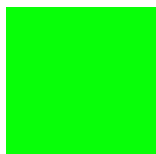
69.4922, 69.8317, 35.8028



## Tritanopia

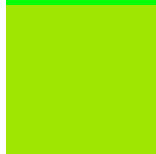
54.8555, 70.7216, 105.3672

# Trichromacy



## Original Color

35.8860, 71.5805, 12.1261



## Protanomaly

42.8904, 64.5293, 10.2810



## Deuteranomaly

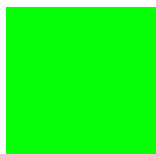
45.0065, 63.7457, 20.5217



## Tritanomaly

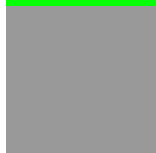
41.6662, 68.2736, 46.5794

# Monochromacy



## Original Color

35.8860, 71.5805, 12.1261



## Achromatopsia

30.2779, 31.8547, 34.6897



## Achromatomaly

25.9692, 40.4563, 18.4967

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 35.8860, 71.5805, 12.1261 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(7, 255, 7)` looks like.

```
.text, #text, p{  
    color:rgb(7, 255, 7)  
}
```

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(7, 255, 7) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(7, 255, 7) }
```

## Border

The CSS property to change the border of an element to XYZ 35.8860, 71.5805, 12.1261 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(7, 255, 7) }
```



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

```
.border{ border-color:rgb(7, 255, 7) }
```

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

Here you see how a box with a 4 pixel `rgb(7, 255, 7)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(7, 255, 7); -webkit-box-shadow:4px  
4px 4px 4px rgb(7, 255, 7); box-shadow:4px  
4px 4px 4px rgb(7, 255, 7) }
```

# Background

The CSS property to change the background color of an element to XYZ 35.8860, 71.5805, 12.1261 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(7, 255, 7) }
```

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

```
.background{ background-color: rgb(7, 255,  
7) }
```

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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