

# Converting Colors

XYZ(37.2692, 70.0656, 12.8716)

Have a look what the booklet for  
XYZ(37.2692, 70.0656, 12.8716)  
contains.

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# Color

**XYZ(37.1806, 69.8866,  
12.8262)**

# Conversions

## Conversions Part 1

Format	Color
Hex	49FA1F
RGB	73, 250, 31
RGB Percent	29%, 98%, 12%
CMY	0.7137, 0.0196, 0.8784
CMYK	0.71, 0.00, 0.88, 0.02
HSL	108°, 96%, 55%
HSV	108°, 88%, 98%
XYZ	37.1806, 69.8866, 12.8262
YIQ	172.1110, -35.1930, -105.6330

# Conversions

## Conversions Part 2

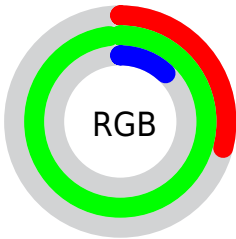
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">31, 250, 208</a>
Decimal	<a href="#">4848159</a>
CIELab	<a href="#">86.94, -78.04, 79.44</a>
CIELCh	<a href="#">87, 111.360, 134.488</a>
Yxy	<a href="#">69.8866, 0.3101, 0.5829</a>
Android (android.graphics.Color)	<a href="#">4283038239</a> <a href="#">(0xFF49FA1F)</a>
YUV	<a href="#">172.1110, -69.5677, -86.9203</a>
Hunter-Lab	<a href="#">83.5982, -66.9083, 49.4221</a>

# Details

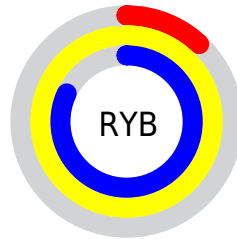
The XYZ color **37.1806, 69.8866, 12.8262** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark washed green. A complement of this color would be **43.7646, 21.2961, 92.2501**, and the grayscale version is **39.6255, 41.6891, 45.3994**.

A 20% lighter version of the original color is **49.9630, 78.5706, 24.8442**, and **18.8496, 37.6993, 6.2832** is the 20% darker color. If you saturate the color by 10%, you get **35.6773, 69.1385, 11.6374**, and if you desaturate by 10%, it is **39.4365, 70.9977, 15.3689**.

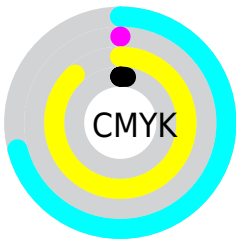
# Distribution



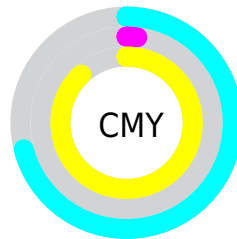
- Red (29%)
- Green (98%)
- Blue (12%)



- Red (12%)
- Yellow (98%)
- Blue (82%)



- Cyan (71%)
- Magenta (0%)
- Yellow (88%)
- Black (2%)




- Cyan (71%)
- Magenta (2%)
- Yellow (88%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.1806, 69.8866, 12.8262 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 37.1806, 69.8866, 12.8262 by changing the saturation by 10% instead.





 37.1806, 69.8866,  
12.8262


 37.1806, 69.8866,  
12.8262


325.4337,  
460.1517, 220.9694


 25.5217, 51.4341,  
7.1797


 70.1625, 119.0470,  
31.6778

 16.5969, 36.5542,  
3.4946


 92.2162, 150.5237,  
45.7199


 10.0411, 24.8625,  
1.3524


 118.4655,  
187.1106, 63.3976

 5.4887, 15.9747,  
0.1041

 149.2757,  
229.1921, 85.1295

 2.5744, 9.5062,  
0.0000

 185.0123,  
277.1526, 111.3341

 0.9329, 5.0728,  
0.0000

 226.0406,

 0.0000, 2.2900,

331.3764, 142.4299

0.0000

272.7260,  
392.2480, 178.8355

■ 0.0000, 0.7684,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 37.1806, 69.8866,  
12.8262

■ 37.1806, 69.8866,  
12.8262

■ 35.6773, 69.1385,  
11.6374


■ 39.4365, 70.9977,  
15.3689


■ 35.4027, 69.0007,  
11.4526


■ 42.5364, 72.5067,  
19.5412


■ 46.5609, 74.4524,  
25.5572

■ 51.5790, 76.8666,  
33.5973

 57.6532, 79.7779,  
43.8207

 64.8404, 83.2127,  
56.3704

 73.1936, 87.1955,  
71.3775

 82.7622, 91.7489,  
88.9632

 93.4281, 96.8288,  
108.3734

# Harmonies

## Analogous

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



54.6822, 69.8866, 4.6020



37.1806, 69.8866, 12.8262



28.9488, 69.8866, 43.8569

# Triad

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



37.1806, 69.8866, 12.8262



53.9275, 69.8866, 314.3664



127.5666, 69.8866, 45.5914

# Complementary

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



37.1806, 69.8866, 12.8262



43.7646, 21.2961, 92.2501

# 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.



127.2096, 69.8866, 121.1877



37.1806, 69.8866, 12.8262



79.7393, 69.8866, 316.0749

# Square

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



37.1806, 69.8866, 12.8262



36.7531, 69.8866, 227.0658



107.9972, 69.8866, 230.8374



108.8732, 69.8866, 13.3864



# Rectangle

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



37.1806, 69.8866, 12.8262



28.0003, 69.8866, 87.8622



107.9972, 69.8866, 230.8374



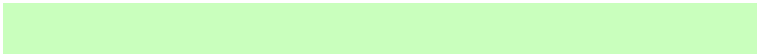
129.7998, 69.8866, 65.4276

# Sweetspot

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



37.1822, 69.8895, 12.8278



69.1108, 87.6556, 61.2503



61.7946, 64.6661, 10.5223



14.1915, 18.4750, 12.0452



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.



37.1822, 69.8895, 12.8278



37.0212, 72.1702, 11.9790



36.8969, 69.5233, 22.7138



17.3279, 19.4693, 18.3071



18.8669, 36.6445, 6.0787



1.8274, 3.4351, 0.5667



# Inverse Universe

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



43.7646, 21.2961, 92.2501



43.5347, 20.3578, 96.2427



48.6004, 24.7793, 47.7382



17.6478, 17.3466, 21.8034



22.1997, 10.3871, 48.8084

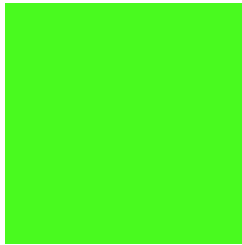


2.1370, 1.0037, 4.5243



# Previews

## White Background



This preview shows how the XYZ color 37.1806, 69.8866, 12.8262 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

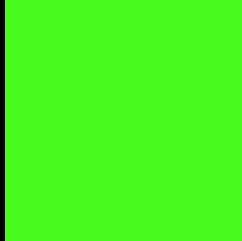
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.1806, 69.8866, 12.8262 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

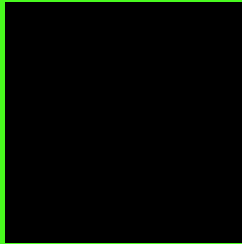
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 37.1806, 69.8866, 12.8262**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.1806, 69.8866, 12.8262.



This preview shows how white text looks on a background with the XYZ color 37.1806, 69.8866,



# 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

37.1806, 69.8866, 12.8262

### Protanopia

61.6356, 68.2134, 10.5341

### Deuteranopia

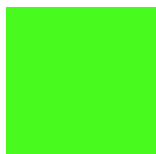
68.0990, 68.0930, 32.1083



## Tritanopia

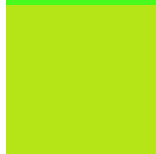
54.8637, 69.5279, 101.7954

# Trichromacy



## Original Color

37.1806, 69.8866, 12.8262



## Protanomaly

46.9541, 65.3724, 10.9540



## Deuteranomaly

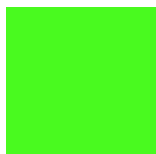
49.5316, 64.4572, 21.1402



## Tritanomaly

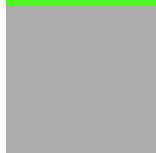
44.0429, 67.6765, 49.2697

# Monochromacy



## Original Color

37.1806, 69.8866, 12.8262



## Achromatopsia

39.2122, 41.2543, 44.9259



## Achromatomaly

34.2588, 47.9233, 25.5336

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.1806, 69.8866, 12.8262 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(73, 250, 31)` looks like.

```
.text, #text, p{  
    color:rgb(73, 250, 31)  
}
```

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(73, 250, 31) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(73, 250, 31) }
```

## Border

The CSS property to change the border of an element to XYZ 37.1806, 69.8866, 12.8262 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(73, 250, 31) }
```



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

```
.border{ border-color:rgb(73, 250, 31) }
```

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

Here you see how a box with a 4 pixel `rgb(73, 250, 31)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(73, 250, 31); -webkit-box-  
shadow:4px 4px 4px 4px rgb(73, 250, 31);  
box-shadow:4px 4px 4px 4px rgb(73, 250,  
31) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.1806, 69.8866, 12.8262 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(73, 250, 31) }
```

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

```
.background{ background-color: rgb(73, 250,  
31) }
```

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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