

# Converting Colors

XYZ(37.1184, 72.0778, 18.4200)

Have a look what the booklet for  
XYZ(37.1184, 72.0778, 18.4200)  
contains.

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# Color

**XYZ(37.1212, 72.0789,  
18.4347)**

# Conversions

## Conversions Part 1

Format	Color
Hex	0AFF4A
RGB	10, 255, 74
RGB Percent	4%, 100%, 29%
CMY	0.9608, 0.0000, 0.7098
CMYK	0.96, 0.00, 0.71, 0.00
HSL	136°, 100%, 52%
HSV	136°, 96%, 100%
XYZ	37.1212, 72.0789, 18.4347
YIQ	161.1110, -87.9190, -108.2310

# Conversions

## Conversions Part 2

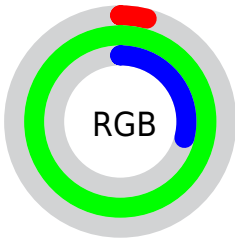
<b>Format</b>	<b>Color</b>
<b>RYB</b>	10, 204, 255
Decimal	720714
CIELab	88.01, -82.82, 68.68
CIELCh	88, 107.594, 140.334
Yxy	72.0789, 0.2908, 0.5647
Android (android.graphics.Color)	4278910794 (0xFF0AFF4A)
YUV	161.1110, -42.9457, -132.5243
Hunter-Lab	84.8993, -70.5268, 46.5555

# Details

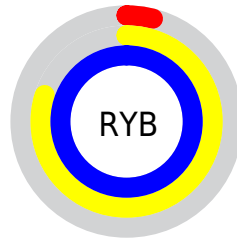
The XYZ color **37.1212, 72.0789, 18.4347** is a dark color, and the websafe version is hex **00FF33**. The color can be described as dark saturated green. A complement of this color would be **50.7526, 25.2388, 51.4870**, and the grayscale version is **34.1518, 35.9304, 39.1282**.

A 20% lighter version of the original color is **47.5326, 77.1079, 34.2079**, and **19.7399, 39.4799, 6.5800** is the 20% darker color. If you saturate the color by 10%, you get **36.7616, 71.9206, 17.1942**, and if you desaturate by 10%, it is **38.4394, 72.6738, 22.3215**.

# Distribution



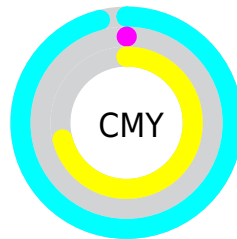
- Red (4%)
- Green (100%)
- Blue (29%)



- Red (4%)
- Yellow (80%)
- Blue (100%)



- Cyan (96%)
- Magenta (0%)
- Yellow (71%)
- Black (0%)




- Cyan (96%)
- Magenta (0%)
- Yellow (71%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.1212, 72.0789, 18.4347 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 37.1212, 72.0789, 18.4347 by changing the saturation by 10% instead.





 37.1212, 72.0789,  
18.4347


 37.1212, 72.0789,  
18.4347


325.1814,  
467.8162, 255.6278


 25.4754, 53.2231,  
11.0899


 70.0718, 122.1687,  
41.6006

 16.5623, 37.9809,  
6.0124


 92.1073, 154.1715,  
58.2587


 10.0162, 25.9679,  
2.7837


 118.3368,  
191.3255, 78.8583

 5.4721, 16.7996,  
0.9853

 149.1256,  
234.0150, 103.8179

 2.5644, 10.0917,  
0.0000

 184.8392,  
282.6244, 133.5562

 0.9278, 5.4598,  
0.0000

225.8427,

 0.0000, 2.5195,

337.5381, 168.4915

0.0000

272.5017,  
399.1406, 209.0426

■ 0.0000, 0.8864,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 37.1212, 72.0789,  
18.4347

■ 37.1212, 72.0789,  
18.4347

■ 36.7616, 71.9206,  
17.1942

■ 38.4394, 72.6738,  
22.3215

■ 40.5919, 73.6751,  
27.3184

■ 43.7090, 75.1483,  
33.5048

■ 47.8967, 77.1467,  
40.9515

■ 53.2463, 79.7159,  
49.7237

■ 59.8394, 82.8967,  
59.8820

■ 67.7497, 86.7261,  
71.4831

■ 77.0454, 91.2379,  
84.5808

■ 87.7895, 96.4637,  
99.2258

# Harmonies

## Analogous

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



52.7581, 72.0789, 6.5668



37.1212, 72.0789, 18.4347



30.4797, 72.0789, 57.0707

# Triad

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



37.1212, 72.0789, 18.4347



60.5556, 72.0789, 316.3579



125.9520, 72.0789, 38.9162

# Complementary

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



37.1212, 72.0789, 18.4347



50.7526, 25.2388, 51.4870

# 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.



129.5476, 72.0789, 104.6722



37.1212, 72.0789, 18.4347



87.1185, 72.0789, 299.4515

# Square

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



37.1212, 72.0789, 18.4347



41.5999, 72.0789, 245.1855



113.9265, 72.0789, 207.6009



105.0649, 72.0789, 12.2301



# Rectangle

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



37.1212, 72.0789, 18.4347



30.5379, 72.0789, 106.6477



113.9265, 72.0789, 207.6009



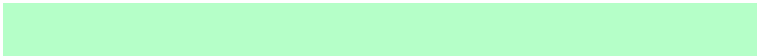
129.3951, 72.0789, 55.7705

# Sweetspot

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



37.1215, 72.0791, 18.4359



65.2962, 85.5372, 67.9382



57.9993, 82.9784, 13.2469



13.2547, 17.9593, 13.4833



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.



37.1215, 72.0791, 18.4359



36.7616, 71.9206, 17.1942



45.5950, 75.4685, 63.0566



17.9663, 20.2461, 20.1256



19.2602, 37.6007, 9.2557



1.9178, 3.6781, 1.1251



# Inverse Universe

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



50.7526, 25.2388, 51.4870



50.3588, 24.9075, 49.9490



42.4942, 21.9354, 7.9985



18.5781, 18.2146, 21.6616



26.3781, 13.0405, 26.4392

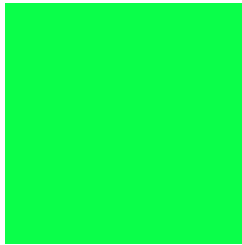


2.6132, 1.2876, 2.8104



# Previews

## White Background



This preview shows how the XYZ color 37.1212, 72.0789, 18.4347 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

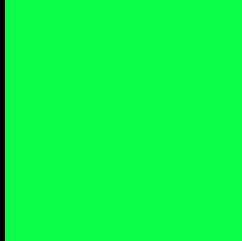
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.1212, 72.0789, 18.4347 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

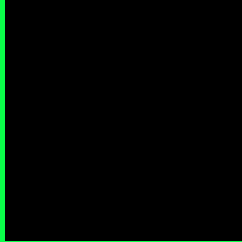
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

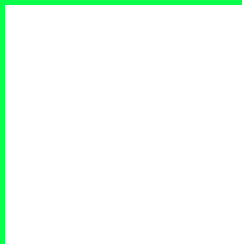
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 37.1212, 72.0789, 18.4347**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.1212, 72.0789, 18.4347.



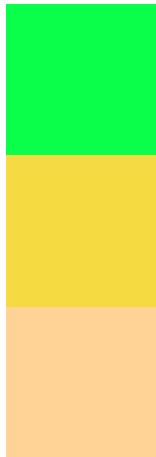
This preview shows how white text looks on a background with the XYZ color 37.1212, 72.0789,



# 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

37.1212, 72.0789, 18.4347

### Protanopia

63.9418, 70.4572, 15.2305

### Deuteranopia

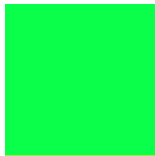
69.9591, 70.0185, 38.2614



## Tritanopia

55.5366, 71.5014, 105.4818

# Trichromacy



## Original Color

37.1212, 72.0789, 18.4347



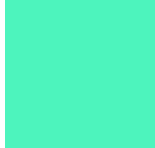
## Protanomaly

44.3972, 65.6042, 15.7917



## Deuteranomaly

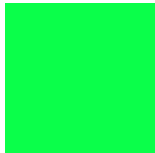
46.7078, 64.4503, 28.3907



## Tritanomaly

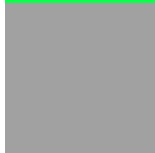
44.5966, 69.9533, 59.2960

# Monochromacy



## Original Color

37.1212, 72.0789, 18.4347



## Achromatopsia

33.8758, 35.6400, 38.8120



## Achromatomaly

29.4214, 43.6794, 27.6492

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.1212, 72.0789, 18.4347 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(10, 255, 74)` looks like.

```
.text, #text, p{  
    color:rgb(10, 255, 74)  
}
```

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(10, 255, 74) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(10, 255, 74) }
```

## Border

The CSS property to change the border of an element to XYZ 37.1212, 72.0789, 18.4347 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(10, 255, 74) }
```



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

```
.border{ border-color:rgb(10, 255, 74) }
```

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

Here you see how a box with a 4 pixel `rgb(10, 255, 74)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(10, 255, 74); -webkit-box-  
shadow:4px 4px 4px 4px rgb(10, 255, 74);  
box-shadow:4px 4px 4px 4px rgb(10, 255,  
74) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.1212, 72.0789, 18.4347 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(10, 255, 74) }
```

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

```
.background{ background-color: rgb(10, 255,  
74) }
```

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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