

# Converting Colors

XYZ(37.4491, 72.3812, 12.4309)

Have a look what the booklet for  
XYZ(37.4491, 72.3812, 12.4309)  
contains.

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# Color

**XYZ(37.4771, 72.3952,  
12.4504)**

# Conversions

## Conversions Part 1

Format	Color
Hex	38FF0F
RGB	56, 255, 15
RGB Percent	22%, 100%, 6%
CMY	0.7804, 0.0000, 0.9411
CMYK	0.78, 0.00, 0.94, 0.00
HSL	110°, 100%, 53%
HSV	110°, 94%, 100%
XYZ	37.4771, 72.3952, 12.4504
YIQ	168.1390, -41.5640, -116.8280

# Conversions

## Conversions Part 2

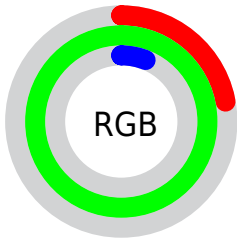
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">15, 255, 214</a>
Decimal	<a href="#">3735311</a>
CIELab	<a href="#">88.16, -82.31, 82.51</a>
CIElCh	<a href="#">88, 116.548, 134.932</a>
Yxy	<a href="#">72.3952, 0.3064, 0.5918</a>
Android (android.graphics.Color)	<a href="#">4281925391 (0xFF38FF0F)</a>
YUV	<a href="#">168.1390, -75.4975, -98.3459</a>
Hunter-Lab	<a href="#">85.0854, -70.2764, 50.8840</a>

# Details

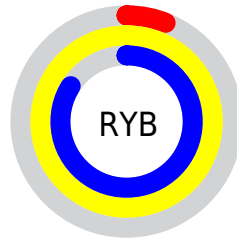
The XYZ color **37.4771, 72.3952, 12.4504** is a dark color, and the websafe version is hex **33FF00**. The color can be described as dark saturated green. A complement of this color would be **45.9619, 21.8634, 96.4053**, and the grayscale version is **37.6638, 39.6253, 43.1519**.

A 20% lighter version of the original color is **48.1878, 77.6829, 23.5209**, and **19.9663, 39.9325, 6.6554** is the 20% darker color. If you saturate the color by 10%, you get **36.7788, 72.0452, 11.9677**, and if you desaturate by 10%, it is **39.2245, 73.2607, 14.1286**.

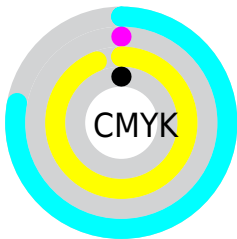
# Distribution



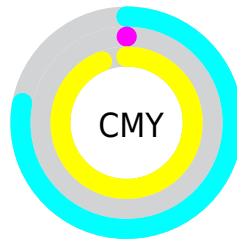
- Red (22%)
- Green (100%)
- Blue (6%)



- Red (6%)
- Yellow (100%)
- Blue (84%)



- Cyan (78%)
- Magenta (0%)
- Yellow (94%)
- Black (0%)




- Cyan (78%)
- Magenta (0%)
- Yellow (94%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.4771, 72.3952, 12.4504 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 37.4771, 72.3952, 12.4504 by changing the saturation by 10% instead.





 37.4771, 72.3952,  
12.4504


 37.4771, 72.3952,  
12.4504


326.6913,  
468.9160, 218.4474


 25.7525, 53.4816,  
6.9250


 70.6150, 122.6182,  
30.9894

 16.7703, 38.1873,  
3.3375


 92.7591, 154.6964,  
44.8400


 10.1651, 26.1281,  
1.2694


 119.1069,  
191.9316, 62.3027

 5.5717, 16.9195,  
0.0365

 150.0240,  
234.7082, 83.7961

 2.6246, 10.1771,  
0.0000

 185.8756,  
283.4105, 109.7388

 0.9585, 5.5166,  
0.0000

 227.0271,

 0.0000, 2.5534,

338.4230, 140.5492

0.0000

273.8439,  
400.1300, 176.6458

■ 0.0000, 0.9033,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 37.4771, 72.3952,  
12.4504

■ 37.4771, 72.3952,  
12.4504

■ 36.7788, 72.0452,  
11.9677

■ 39.2245, 73.2607,  
14.1286

■ 41.8130, 74.5267,  
17.3404

■ 45.3395, 76.2376,  
22.3438

■ 49.8869, 78.4316,  
29.3487

■ 55.5285, 81.1424,  
38.5362

■ 62.3304, 84.4008,  
50.0668

■ 70.3538, 88.2350,  
64.0863

■ 79.6553, 92.6713,  
80.7284

■ 90.2878, 97.7344,  
100.1174

# Harmonies

## Analogous

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



55.9043, 72.3952, 4.0883



37.4771, 72.3952, 12.4504



28.9513, 72.3952, 45.2816

# Triad

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



37.4771, 72.3952, 12.4504



55.7975, 72.3952, 339.2908



134.6611, 72.3952, 45.5249

# Complementary

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



37.4771, 72.3952, 12.4504



45.9619, 21.8634, 96.4053

# 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.



134.6097, 72.3952, 125.8329



37.4771, 72.3952, 12.4504



83.5619, 72.3952, 339.5400

# Square

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



37.4771, 72.3952, 12.4504



37.4172, 72.3952, 244.4914



114.0200, 72.3952, 245.0391



114.1458, 72.3952, 12.5257



# Rectangle

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



37.4771, 72.3952, 12.4504



28.0379, 72.3952, 92.7706



114.0200, 72.3952, 245.0391



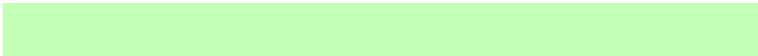
137.1976, 72.3952, 66.3539

# Sweetspot

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



37.4773, 72.3953, 12.4515



67.0802, 86.6715, 58.3217



64.6221, 67.8859, 10.1504



13.6291, 18.2029, 11.2135



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.



37.4773, 72.3953, 12.4515



36.7788, 72.0452, 11.9677



37.8468, 72.3775, 21.8779



18.0605, 20.3171, 19.1140



19.3015, 37.6883, 6.2573



1.9558, 3.7090, 0.6128



# Inverse Universe

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



45.9619, 21.8634, 96.4053



45.0474, 21.1377, 96.3135



49.5489, 24.8576, 44.8395



18.4704, 18.1342, 22.7767



23.6501, 11.1026, 50.3311

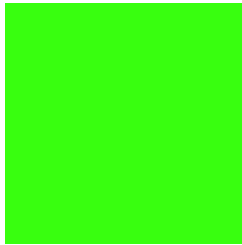


2.3795, 1.1206, 4.9042



# Previews

## White Background



This preview shows how the XYZ color 37.4771, 72.3952, 12.4504 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

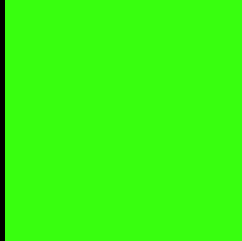
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.4771, 72.3952, 12.4504 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 37.4771, 72.3952, 12.4504

## Background



This preview shows how black text looks on a background with the XYZ color 37.4771, 72.3952, 12.4504.



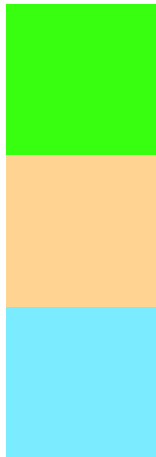
This preview shows how white text looks on a background with the XYZ color 37.4771, 72.3952,



# 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

37.4771, 72.3952, 12.4504

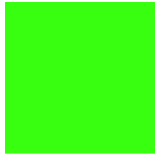
### Deuteranopia

70.0499, 70.4536, 37.5106

### Tritanopia

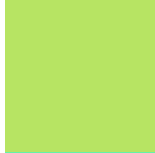
56.2138, 71.4219, 105.4308

# Trichromacy



## Original Color

37.4771, 72.3952, 12.4504



## Deuteranomaly

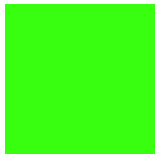
49.5240, 66.4549, 22.0213



## Tritanomaly

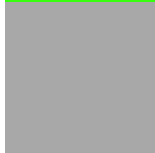
44.2641, 69.5810, 48.1433

# Monochromacy



## Original Color

37.4771, 72.3952, 12.4504



## Achromatopsia

37.2190, 39.1572, 42.6422



## Achromatomaly

32.3313, 46.9904, 22.6953

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.4771, 72.3952, 12.4504 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(56, 255, 15)` looks like.

```
.text, #text, p{  
    color:rgb(56, 255, 15)  
}
```

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(56, 255, 15) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(56, 255, 15) }
```

## Border

The CSS property to change the border of an element to XYZ 37.4771, 72.3952, 12.4504 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(56, 255, 15) }
```

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

```
.border{ border-color:rgb(56, 255, 15) }
```

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

Here you see how a box with a 4 pixel rgb(56, 255, 15) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(56, 255, 15); -webkit-box-  
shadow:4px 4px 4px 4px rgb(56, 255, 15);  
box-shadow:4px 4px 4px 4px rgb(56, 255,  
15) }
```



# Background

The CSS property to change the background color of an element to XYZ 37.4771, 72.3952, 12.4504 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(56, 255, 15) }
```

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

```
.background{ background-color: rgb(56, 255,  
15) }
```

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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