

# Converting Colors

XYZ(37.3776, 71.9257, 11.9602)

Have a look what the booklet for  
XYZ(37.3776, 71.9257, 11.9602)  
contains.

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# Color

**XYZ(37.3772, 71.8801,  
11.9617)**

# Conversions

## Conversions Part 1

Format	Color
Hex	3DFE02
RGB	61, 254, 2
RGB Percent	24%, 100%, 1%
CMY	0.7608, 0.0039, 0.9920
CMYK	0.76, 0.00, 0.99, 0.00
HSL	106°, 99%, 50%
HSV	106°, 99%, 100%
XYZ	37.3772, 71.8801, 11.9617
YIQ	167.5650, -34.1360, -119.2880

# Conversions

## Conversions Part 2

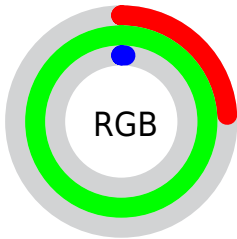
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	2, 254, 195
Decimal	4062722
CIE Lab	87.91, -81.57, 83.37
CIE LCh	88, 116.639, 134.376
Yxy	71.8801, 0.3083, 0.5930
Android (android.graphics.Color)	4282252802 (0xFF3DFE02)
YUV	167.5650, -81.6235, -93.4575
Hunter-Lab	84.7821, -69.6749, 50.9824

# Details

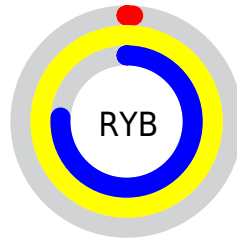
The XYZ color **37.3772, 71.8801, 11.9617** is a dark color, and the websafe version is hex **33FF00**. The color can be described as dark saturated green. A complement of this color would be **40.4295, 18.8084, 95.2693**, and the grayscale version is **37.4090, 39.3572, 42.8600**.

A 20% lighter version of the original color is **48.3832, 77.7993, 22.8226**, and **19.7399, 39.4799, 6.5800** is the 20% darker color. If you saturate the color by 10%, you get **37.2729, 71.8298, 11.9001**, and if you desaturate by 10%, it is **38.9931, 72.6931, 13.0398**.

# Distribution



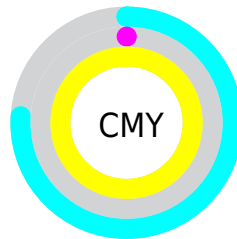
- Red (24%)
- Green (100%)
- Blue (1%)



- Red (1%)
- Yellow (100%)
- Blue (76%)



- Cyan (76%)
- Magenta (0%)
- Yellow (99%)
- Black (0%)




- Cyan (76%)
- Magenta (0%)
- Yellow (99%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.3772, 71.8801, 11.9617 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 37.3772, 71.8801, 11.9617 by changing the saturation by 10% instead.





 37.3772, 71.8801,  
11.9617


 37.3772, 71.8801,  
11.9617


326.2680,  
467.1242, 215.1205

 25.6747, 53.0607,  
6.5954


 70.4626, 121.8860,  
30.0887

 16.7118, 37.8513,  
3.1358


 92.5762, 153.8414,  
43.6864


 10.1233, 25.8673,  
1.1644


 118.8909,  
190.9443, 60.8651

 5.5437, 16.7244,  
0.0000

 149.7720,  
233.5790, 82.0431

 2.6076, 10.0382,  
0.0000

 185.5849,  
282.1299, 107.6392

 0.9499, 5.4243,  
0.0000

 226.6950,

 0.0000, 2.4983,

336.9815, 138.0717

0.0000

273.4676,  
398.5181, 173.7593

■ 0.0000, 0.8758,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 37.3772, 71.8801,  
11.9617

■ 37.3772, 71.8801,  
11.9617

■ 37.2729, 71.8298,  
11.9001

■ 38.9931, 72.6931,  
13.0398

■ 41.3281, 73.8465,  
15.4245

■ 44.4856, 75.3882,  
19.4597

■ 48.5422, 77.3528,  
25.3734

■ 53.5647, 79.7705,  
33.3573

■ 59.6133, 82.6686,  
43.5798

■ 66.7428, 86.0723,  
56.1917

■ 75.0043, 90.0047,  
71.3308

■ 84.4452, 94.4876,  
89.1245

# Harmonies

## Analogous

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



55.9062, 71.8801, 3.9433



37.3772, 71.8801, 11.9617



28.7310, 71.8801, 43.8925

# Triad

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



37.3772, 71.8801, 11.9617



54.9293, 71.8801, 337.0698



134.1632, 71.8801, 46.1166

# Complementary

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



37.3772, 71.8801, 11.9617



40.4295, 18.8084, 95.2693

# 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.



133.6918, 71.8801, 127.0755



37.3772, 71.8801, 11.9617



82.4472, 71.8801, 339.3566

# Square

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



37.3772, 71.8801, 11.9617



36.8299, 71.8801, 241.2343



112.8595, 71.8801, 246.2562



114.0124, 71.8801, 12.6476



# Rectangle

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



37.3772, 71.8801, 11.9617



27.7233, 71.8801, 90.5174



112.8595, 71.8801, 246.2562



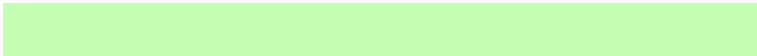
136.5541, 71.8801, 67.1718

# Sweetspot

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



37.3789, 71.8831, 11.9633



66.7156, 86.5441, 55.5716



59.5196, 58.3435, 8.1830



13.6097, 18.2042, 10.6995



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.



37.3789, 71.8831, 11.9633



37.6036, 72.4704, 12.0063



36.4238, 71.2817, 16.8447



18.1693, 20.3732, 19.1191



19.7567, 37.9230, 6.2786



2.0150, 3.7395, 0.6156



# Inverse Universe

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



40.4295, 18.8084, 95.2693



40.6410, 18.8661, 96.1072



50.3023, 24.8781, 51.4486



18.3527, 18.0736, 22.7712



21.3742, 9.9293, 50.2246

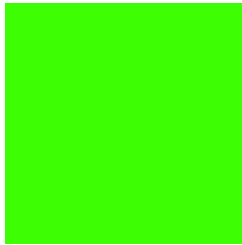


2.1769, 1.0161, 4.8947



# Previews

## White Background



This preview shows how the XYZ color 37.3772, 71.8801, 11.9617 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

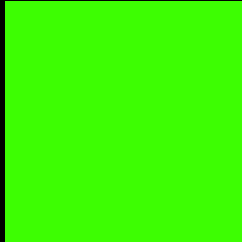
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.3772, 71.8801, 11.9617 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 37.3772, 71.8801, 11.9617**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.3772, 71.8801, 11.9617.



This preview shows how white text looks on a background with the XYZ color 37.3772, 71.8801,



# 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

37.3772, 71.8801, 11.9617

### Protanopia

63.3376, 70.2559, 10.2225

### Deuteranopia

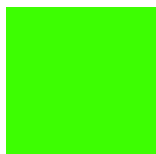
69.6451, 69.8929, 36.6080



## Tritanopia

55.9306, 71.2759, 105.4175

# Trichromacy



## Original Color

37.3772, 71.8801, 11.9617



## Protanomaly

47.4525, 67.2991, 10.5177



## Deuteranomaly

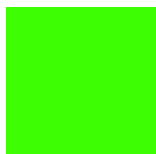
49.2120, 65.9188, 20.4858



## Tritanomaly

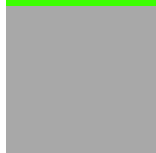
43.8070, 69.3982, 45.7366

# Monochromacy



## Original Color

37.3772, 71.8801, 11.9617



## Achromatopsia

37.2190, 39.1572, 42.6422



## Achromatomaly

32.1835, 46.5967, 21.4852

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.3772, 71.8801, 11.9617 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(61, 254, 2)` looks like.

```
.text, #text, p{  
    color:rgb(61, 254, 2)  
}
```

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(61, 254, 2) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(61, 254, 2) }
```

## Border

The CSS property to change the border of an element to XYZ 37.3772, 71.8801, 11.9617 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(61, 254, 2) }
```



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

```
.border{ border-color:rgb(61, 254, 2) }
```

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

Here you see how a box with a 4 pixel rgb(61, 254, 2) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(61, 254, 2); -webkit-box-  
shadow:4px 4px 4px 4px rgb(61, 254, 2);  
box-shadow:4px 4px 4px 4px rgb(61, 254, 2)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 37.3772, 71.8801, 11.9617 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(61, 254, 2) }
```

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

```
.background{ background-color: rgb(61, 254,  
2) }
```

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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