

# Converting Colors

XYZ(37.5632, 72.2413, 21.4155)

Have a look what the booklet for  
XYZ(37.5632, 72.2413, 21.4155)  
contains.

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# Color

**XYZ(37.5632, 72.2413,  
21.4154)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FF59
RGB	0, 255, 89
RGB Percent	0%, 100%, 35%
CMY	1.0000, 0.0000, 0.6510
CMYK	1.00, 0.00, 0.65, 0.00
HSL	141°, 100%, 50%
HSV	141°, 100%, 100%
XYZ	37.5632, 72.2413, 21.4154
YIQ	159.8310, -98.6940, -105.6860

# Conversions

## Conversions Part 2

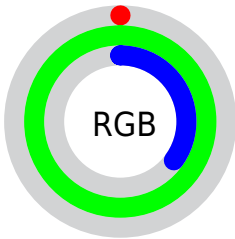
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 189, 255
Decimal	65369
CIELab	88.08, -81.71, 63.15
CIELCh	88, 103.270, 142.305
Yxy	72.2413, 0.2863, 0.5505
Android (android.graphics.Color)	4278255449 (0xFF00FF59)
YUV	159.8310, -34.9197, -140.1718
Hunter-Lab	84.9949, -69.8536, 44.5576

# Details

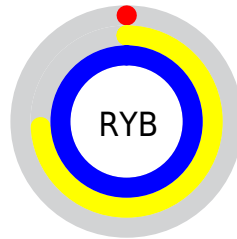
The XYZ color **37.5632, 72.2413, 21.4154** is a dark color, and the websafe version is hex **00FF66**. The color can be described as dark saturated green. A complement of this color would be **48.1233, 24.0135, 38.1766**, and the grayscale version is **33.5253, 35.2713, 38.4104**.

A 20% lighter version of the original color is **48.2070, 77.3462, 39.1766**, and **19.9264, 39.5544, 7.5618** is the 20% darker color. If you saturate the color by 10%, you get **37.5632, 72.2413, 21.4153**, and if you desaturate by 10%, it is **38.7546, 72.7656, 25.5309**.

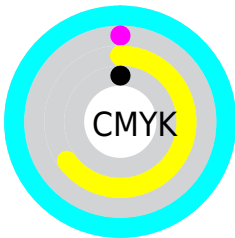
# Distribution



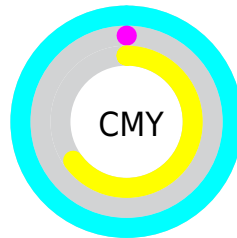
- Red (0%)
- Green (100%)
- Blue (35%)



- Red (0%)
- Yellow (74%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (65%)
- Black (0%)




- Cyan (100%)
- Magenta (0%)
- Yellow (65%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.5632, 72.2413, 21.4154 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 37.5632, 72.2413, 21.4154 by changing the saturation by 10% instead.





 37.5632, 72.2413,  
21.4154


 37.5632, 72.2413,  
21.4154

327.0558,  
468.3810, 272.3311

 25.8195, 53.3558,  
13.2338


 70.7464, 122.3995,  
46.6676


 16.8206, 38.0869,  
7.4571


 92.9166, 154.4411,  
64.5752


 10.2012, 26.0501,  
3.6668


 119.2930,  
191.6367, 86.5620

 5.5959, 16.8612,  
1.4444

 150.2410,  
234.3710, 113.0464

 2.6392, 10.1355,  
0.1760

 186.1259,  
283.0281, 144.4470

 0.9660, 5.4889,  
0.0000

227.3131,

 0.0000, 2.5369,

337.9926, 181.1823

0.0000

274.1680,  
399.6487, 223.6708

■ 0.0000, 0.8950,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 37.5632, 72.2413,  
21.4154

■ 37.5632, 72.2413,  
21.4154


■ 37.5632, 72.2413,  
21.4153


■ 38.7546, 72.7656,  
25.5309


■ 40.6513, 73.6343,  
30.5495


■ 43.4271, 74.9358,  
36.5268


■ 47.1910, 76.7255,  
43.5115

 52.0353, 79.0499,  
51.5481

 58.0410, 81.9502,  
60.6788

 65.2813, 85.4630,  
70.9431

 73.8230, 89.6221,  
82.3786

 83.7279, 94.4587,  
95.0211

# Harmonies

## Analogous

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



52.1938, 72.2413, 8.0419



37.5632, 72.2413, 21.4154



31.5782, 72.2413, 61.8401

# Triad

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



37.5632, 72.2413, 21.4154



62.5077, 72.2413, 304.5621



122.5365, 72.2413, 37.5569

# Complementary

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



37.5632, 72.2413, 21.4154



48.1233, 24.0135, 38.1766

# Split Complementary

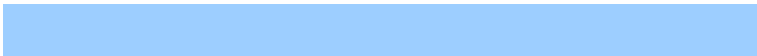
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



127.1854, 72.2413, 98.2793



37.5632, 72.2413, 21.4154



88.2769, 72.2413, 283.0518

# Square

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



37.5632, 72.2413, 21.4154



43.5596, 72.2413, 242.4631



113.4304, 72.2413, 194.3360



101.9282, 72.2413, 12.7088



# Rectangle

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



37.5632, 72.2413, 21.4154



31.9744, 72.2413, 111.2919



113.4304, 72.2413, 194.3360



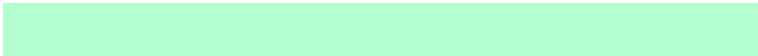
126.1893, 72.2413, 53.1232

# Sweetspot

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



37.5635, 72.2414, 21.4166



65.2786, 85.4617, 70.9394



52.3382, 80.0664, 12.6961



13.2858, 17.9589, 14.2276



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.



37.5635, 72.2414, 21.4166



37.5632, 72.2413, 21.4153



47.7071, 76.2989, 74.8322



18.0333, 20.2729, 20.4784



19.6910, 37.7730, 11.5240



1.9666, 3.6976, 1.3818



# Inverse Universe

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



48.1233, 24.0135, 38.1766



48.1230, 24.0132, 38.1751



41.6671, 21.4310, 4.1789



18.5076, 18.1864, 21.2902



25.2186, 12.5767, 20.3334

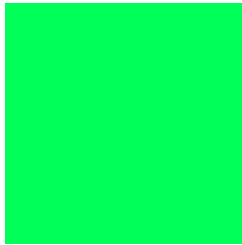


2.5072, 1.2452, 2.2521



# Previews

## White Background



This preview shows how the XYZ color 37.5632, 72.2413, 21.4154 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 37.5632, 72.2413, 21.4154 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 37.5632, 72.2413, 21.4154**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.5632, 72.2413, 21.4154.



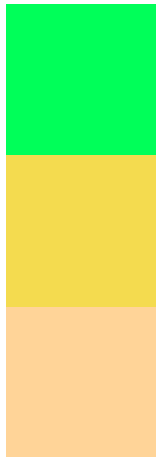
This preview shows how white text looks on a background with the XYZ color 37.5632, 72.2413,



# 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

37.5632, 72.2413, 21.4154

### Protanopia

64.0510, 70.4606, 17.6215

### Deuteranopia

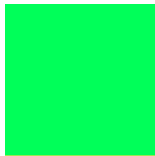
70.4510, 70.6140, 39.6225



## Tritanopia

55.8054, 71.6399, 105.4944

# Trichromacy



## Original Color

37.5632, 72.2413, 21.4154



## Protanomaly

43.9355, 65.3063, 18.4734



## Deuteranomaly

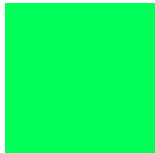
46.6061, 64.7532, 30.8111



## Tritanomaly

45.1027, 70.1374, 62.7905

# Monochromacy



## Original Color

37.5632, 72.2413, 21.4154



## Achromatopsia

33.4132, 35.1533, 38.2819



## Achromatomaly

29.2977, 43.5762, 29.4212

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.5632, 72.2413, 21.4154 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(0, 255, 89)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 89)  
}
```

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(0, 255, 89) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 89) }
```

## Border

The CSS property to change the border of an element to XYZ 37.5632, 72.2413, 21.4154 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(0, 255, 89) }
```



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

```
.border{ border-color:rgb(0, 255, 89) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 255, 89)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 89); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 89);  
box-shadow:4px 4px 4px 4px rgb(0, 255, 89)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 37.5632, 72.2413, 21.4154 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 255, 89) }
```

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

```
.background{ background-color: rgb(0, 255,  
89) }
```

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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